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McCULLOUGH'S
CATALOG OF

BULBS,
SEEDS,
PLANTS,
SHRUBS,
TREES,
ETC.

AUTUMN, 1928

1838

NINETY YEARS OF SERVICE

1928

R. S. McCULLOUGH, President

CHAS. R. MOORE, Vice-President



The J. M. McCullough's Sons Co.
SEEDSMEN AND IMPORTERS OF BULBS
316 WALNUT STREET 316
Just Below Fourth

Opposite Walnut Street Entrance Dixie Terminal Building

Long Distance
Phone Main 4597

P. O. Box
845

Cincinnati, O.



INSTRUCTIONS

Always Get Your Bulbs Early



It is advisable to get your bulbs in the ground as early as possible after the first of October. Sooner will do no harm in cold localities. Although they can be planted as late as they can be got in the ground, yet those planted early give finer flowers, as it is necessary for bulbs to make some root growth in fall to give the best results. The general line of bulbs will be ready the second week in September. A few kinds (chiefly lilies) are not ready for shipment before November, as they are not matured enough to take up before that time. Therefore, please note that all general orders will be shipped as soon as received, and the "November Bulbs" will be forwarded as early in November as possible. Should you wish us to hold your general order until November bulbs are ready, please so state.

OUR PRICES INCLUDE POSTAGE on single bulbs and by the dozen, except where otherwise noted. Bulbs quoted by the hundred are not sent prepaid.

Order Early. It will greatly facilitate shipments if orders are sent early. We aim to send off all orders the day received.

Send the Money with the Order. Remit by Post Office Order, Registered Letter, Express Money Order, or Draft on Cincinnati or New York. United States Postage Stamps will be received for small amounts; be exceedingly careful about the least moisture getting on them when remitting, as they sometimes reach us so stuck together as to be almost worthless.

We do not send C. O. D. Everything being plainly priced, the return charges on money is an unnecessary expense.

Should you change your address, we will esteem it a favor if you will notify us, so that we can forward our Catalogs with regularity; if you receive two catalogs of the same kind, please hand one to some friend who is interested in horticulture.

Should an Error Occur, we desire to be promptly informed, and will take pleasure in making satisfactory corrections.

Write your name and address distinctly and in full; please use the order sheet and envelope inserted in this catalog.

Our Spring Catalog of Seeds, Bulbs, etc., for 1929 will be ready about January 1st, and will be sent free to all customers and applicants.

PARCEL POST RATES

All parcels of seeds, bulbs and plants, up to and including 8 oz. at the rate of 1c for each 2 oz. regardless of distance; over 8 oz., at the Zone Rate. All merchandise other than seeds, bulbs and plants up to and including 4 oz. in weight can be sent at the rate of 1c an ounce regardless of distance. Over 4 oz. at the Zone Rate.

NOTE:—When estimating postage on goods not included in our free delivery, bear in mind that while the packing on one pound may only weigh the fraction of a pound, it must be considered as a full pound when adding postage. On larger quantities add postage in proportion.

Limit of weight for delivery within local first, second and third zones is 70 lbs; to all other zones, 50 lbs.

When larger quantities are wanted we can pack in two or more parcels if necessary, provided money is remitted to cover postage.

Zone	First Pound	Each Additional Pound
1 and 2—150 miles.....	7c	1c
3—150 to 300 miles.....	8c	2c
4—300 to 600 miles.....	9c	4c
5—600 to 1,000 miles.....	10c	6c
6—1,000 to 1,400 miles.....	11c	8c
7—1,400 to 1,800 miles.....	13c	10c
8—All over 1,800 miles.....	14c	12c

It is advisable to have all merchandise insured. Present rates of Parcel Post insurance are as follows:

Not exceeding \$ 25.00 value.....	5c
Not exceeding 50.00 value.....	10c
Not exceeding 100.00 value.....	25c

If insurance is desired, add to remittance as indicated above.

Poisons cannot be sent by mail. Liquids and goods packed in glass should be sent by Express.

Trade Marks Registered: McCullough's Seeds, XXXX, Buckeye, Suburban Lawn Grass, Central Park Lawn Grass.

The J. M. McCullough's Sons Co., gives no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants it sells, and it will not be in any way responsible for the crop.

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TULIPS

Tulips are one of the most ornamental flowers grown; will thrive in any rich soil or situation if cultivated the same as the Hyacinth. Their brilliant colors impart a rich and beautiful appearance to the lawn in early spring. They can be grown in the house in pots and will force well. For outdoor planting, October and November are the most favorable months. Have the ground well drained; plant from three to four inches deep and about six inches apart.

Darwin Tulips May Flowering

The Darwin are late May flowering garden Tulips, producing very large bowl-formed flowers of symmetrical shape, on tall, strong stems, 2 to 3 feet high, and are effective grown in groups, in the shrubbery or herbaceous border. They far surpass in color and brilliancy anything before known in Tulips. They include almost every conceivable color and shade.

BARON TONNAYE (26 inches.) Bright pink margined blush—base white, tinged blue. A long and beautiful flower. 6c each; 45c per dozen; \$3.00 per 100.

BARTIGON. (24 inches.) Large flower of fiery crimson, with pure white base, one of the best of its color. 6c each; 45c per dozen; \$3.00 per 100.

BLUE AMIABLE. Heliotrope, inside dark violet-purple with a blue base; very large and handsome. 7c each; 65c per dozen; \$4.50 per 100.

CENTENAIRE. Large violet rose with blue base; large flowers of perfect shape, Extra. 6c each; 45c per dozen; \$3.00 per 100.

CLARA BUTT. A large flower of remarkable beauty; color soft salmon pink, shaded rose. 6c each; 45c per dozen; \$3.00 per 100.

DREAM. Beautiful delicate lilac—large globular flower. 7c each; 65c per dozen; \$4.50 per 100.

FARNCOMBE SANDERS. Immense flower of the most brilliant scarlet; one of the best and showiest. 6c each; 45c per dozen; \$3.00 per 100.

FRA ANGELICO. Dark purplish brown, early, good forcer. 7c each; 60c per dozen; \$4.00 per 100.

LA TULIPE NOIRE. Deep maroon black; the darkest and finest form of Darwin Tulip; strong stem and large flower. 7c each; 75c per dozen; \$5.00 per 100.

MADAME KRELAGE. Soft lilac-rose, with a broad margin of blush pink; large flower on a very tall stem; good for forcing. 6c each; 45c per dozen; \$3.00 per 100.

PRIDE OF HAARLEM. Magnificently formed flower of immense size; color brilliant, deep salmon-rose, shaded with scarlet; electric blue base. 6c each; 45c per dozen; \$3.00 per 100.

PRINCESS ELIZABETH. (26 inches.) Large flower; rich rose, toning to silvery rose at edges, inside deep rose, white base. 6c each; 45c per dozen; \$3.00 per 100.

REV. EWBANK. Lilac mauve, shading to silvery heliotrope at edge, very beautiful and distinct color; good forcer. 6c each; 50c per dozen; \$3.50 per 100.

WHITE QUEEN. A large globular flower of pure white, faintly flushed with delicate blush. 6c each; 50c per dozen; \$3.50 per 100.

WILLIAM COPLAND. Blue lilac; highly recommended for early forcing. 7c each; 60c per dozen; \$4.00 per 100.

WM. PITT. (22 inches.) Dark crimson shaded purple on the outer petals, large flower of distinct color and great beauty. 7c each; 60c per dozen; \$4.00 per 100.

FINEST MIXED. Great variety of all colors and shades. 6c each; 35c per dozen; \$2.50 per 100.



Darwin Tulips

Breeder Tulips

Breeders, formerly listed among the Cottage Tulips, really form a distinct class by themselves. These unbroken forms of the old Cottage Tulips are a most interesting class. They have become very popular lately on account of their refined, peculiar colors and vigorous growth. The enormous flowers carried on strong stems are very effective and especially suitable for garden decoration.

APRICOT. Bronzy buff, shaded orange, large peculiar shaped flower. 12c each; \$1.20 per dozen; \$8.50 per 100.

BRONZE QUEEN. (Clio.) Delicate shade of brown, inside tinted golden bronze, beautiful tall stemmed flower of great substance; good forcer. 7c each; 60c per dozen; \$4.00 per 100.

CARDINAL MANNING. (Goliath.) Dark wine red, flushed rosy bronze, very peculiar color; large flower. 8c each; 85c per dozen; \$6.00 per 100.

DOM PEDRO. A beautiful shade of coffee brown, shaded maroon, distinct attractive flower. 12c each; \$1.20 per dozen; \$8.50 per 100.

GODET PARFAIT. Bright violet, a very remarkable, beautiful color, large substantial flower. 12c each; \$1.20 per dozen; \$8.50 per 100.

KLOPSTOCK. Fine lilac, immense flower. 10c each; \$1.00 per dozen; \$7.50 per 100.

LOUIS XIV. Rich dark purple, shaded steel blue, heavily flushed bronze, edged golden brown; enormous size and stately bearing. 15c each; \$1.50 per dozen; \$10.00 per 100.

MARIE LOUISE. Rose, flushed orange-salmon, a pleasing combination of colors; very attractive. 10c each; \$1.00 per dozen; \$7.00 per 100.

PANORAMA. Deep orange-red, shaded mahogany, large globular flower; good forcer. 7c each; 75c per dozen; \$5.00 per 100.

PRINCE OF ORANGE. (Orange Beauty.) Orange scarlet with paler edge; large, beautiful flower. 10c each; \$1.10 per dozen; \$7.50 per 100.

SALOMON. Lilac shaded silvery white, white base; a magnificent Tulip. 8c each; 85c per dozen; \$6.50 per 100.

TURENNE. (MacMahon.) Purplish brown with soft yellow edge, very large and early. 8c each; 85c per dozen; \$6.50 per 100.

VELVET KING. (Dreadnaught.) Velvety black, enormous flower on strong stem; very showy. 8c each; 85c per dozen; \$6.50 per 100.

If you want Flowers in your House this winter or in your Garden next spring, you must plant Bulbs this fall.

Prices per dozen and single bulb include postage.

Late May Flowering Single Tulips

This beautiful class is becoming more popular as it becomes better known. These Tulips are distinct from the early flowering sorts, coming into bloom two or three weeks later and extending the Tulip season over a period of four weeks or more. On account of their extreme hardiness, they are especially adapted for the permanent hardy flower border, where they should be liberally planted in clumps or masses. They may also be naturalized in grass, wild gardens, etc. For bedding they are superb, while as cut flowers they are much to be preferred to the early type, having long stems with flowers of great substance that will remain in perfect condition for a long time.

In planting, the bulbs should be set a little deeper than ordinary tulips, a covering of 4 inches being about right.

ALASKA (Lily Flowered). Golden yellow, elegant flower of long shape with slightly reflexed petals. 30c each; \$3.25 per dozen; \$25.00 per 100.

ARTEMIS (Lily Flowered). Bright carmine rose with pure white base, reflexed petals. 10c each; \$1.10 per dozen; \$7.50 per 100.

AVIS KENNICOT. (25 inches.) Long pointed bloom of pure yellow, edges of petals slightly frilled; black base. 12c each; \$1.35 per dozen; \$9.50 per 100.

GESNERIANA SPATHULATA. (28 inches.) Intense crimson-scarlet, with glittering blue-black center. The tallest, largest flowered and showiest of all Tulips for bedding out in masses. Flowers of enormous size. 6c each; 55c per dozen; \$3.75 per 100.

GRENADIER. (24 inches.) Rich orange scarlet flowers, one of the most beautiful late Tulips. 6c each; 55c per dozen; \$3.75 per 100.

INGLESCOMBE PINK. (Salmon Queen.) (18 inches.) Bright rose-pink with a salmon sheen, large globular flower. 6c each; 45c per dozen; \$3.00 per 100.

INGLESCOMBE YELLOW. Large globular flower, long strong stem, good for borders and cutting. May be called the Yellow Darwin Tulip on account of its Darwin Type. 6c each; 45c per dozen; \$3.00 per 100.

ISABELLA. (Blushing Bride, Shandon Bells.) (18 inches.) Large, long, handsome flower, silvery white, suffused soft carmine-rose towards the edge; center creamy yellow and green. 6c each; 50c per dozen; \$3.50 per 100.

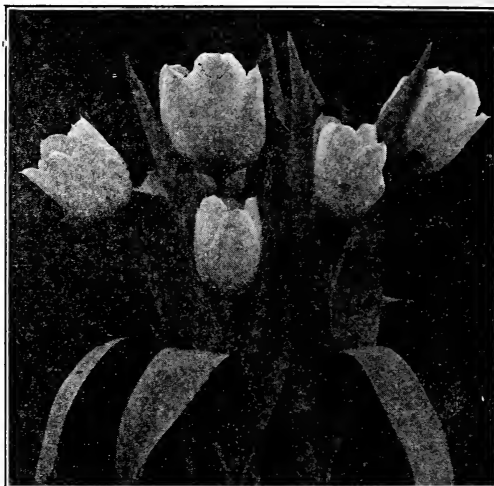
JOHN RUSKIN. (16 inches.) Salmon rose edged lemon yellow, inside heliotrope with golden border and base; large flower of lovely shape, highly recommended. 7c each; 60c per dozen; \$4.00 per 100.

LA CANDEUR. (Parisian White.) (15 inches.) Pure white changing to silvery pink; large egg-shaped flowers. 6c each; 55c per dozen; \$3.75 per 100.

LA MERVEILLE. (18 inches.) A magnificent variety with very large, sweet scented flowers; color, salmon-rose overlaid with orange-red, very effective in beds and borders. 6c each; 45c per dozen; \$3.00 per 100.

MR. DAMES. A large clear yellow flower of great beauty on strong stem. 8c each; 85c per dozen; \$6.50 per 100.

MRS. MOON. (25 inches.) Rich golden yellow, beautiful large flower of great substance. The blooms are long and pointed, the outer petals reflexed; one of the most beautiful late Tulips. 8c each; 85c per dozen; \$6.50 per 100.



MAY FLOWERING TULIPS

ORANGE KING. Deep orange, shaded rose, inside orange scarlet with yellow center; large sweet scented flower, carried on a strong stem, unusual substance. 6c each; 50c per dozen; \$3.50 per 100.

PICOTEE. (Maiden's Blush.) (24 inches.) White, faintly edged with pink, which suffuses the entire flower as it ages; a beautiful cut flower. 6c each; 45c per dozen; \$3.00 per 100.

SIRENE. (Lily Flowered.) Beautiful cerise pink, margined pale pink, with white base, one of the Lily shaped varieties of exquisite beauty. 10c each; \$1.10 per dozen; \$7.50 per 100.

SWEET NANCY. A very large white egg-shaped flower, edged and suffused with rose. 6c each; 50c per dozen; \$3.50 per 100.

CHOICEST MIXED. A splendid mixture of all colors, including sweet scented varieties. 6c each; 35c per dozen; \$2.50 per 100.

Single Early Tulips

The letters, a, b, c, following the varieties, indicate their earliness of bloom: the A's flower together, and are the earliest; B, next, etc. The figures indicate the height attained in inches, to aid in arranging flower beds.

	Each	Doz.	100
BELLE ALLIANCE , b7, brilliant scarlet, large flower, sweet scented; fine for bedding and forcing.	\$0.07	\$0.75	\$5.00
COTTAGE MAID , b6, rosy pink, edged with white; a charming variety for bedding and late forcing. . . . .	.07	.75	5.00
CRIMSON BRILLIANT . Bright scarlet, an excellent bedder and easy forcer. . . . .	.06	.45	3.00
DUCHESSE DE PARMA , b9, brownish red with yellow border, large flower; good forcer and breeder. . . . .	.07	.75	5.00
DUSART , b8, dark scarlet, large and very robust, fine for parks; a grand flower; finest scarlet bedder. . . . .	.07	.65	4.50
GRAND DUC (Keiserkroon), b9, deep crimson, broad orange-yellow margin, large and effective. . . . .	.10	.90	6.50
JOOST VAN VONDEL , b8, crimson, flamed white, large and distinct. . . . .	.07	.75	5.00
KING OF YELLOWS , b9, deep golden yellow; extra large and showy; good for early forcing. . . . .	.07	.75	5.00
L'IMMACULEE , b7, pure white, very early and fine; excellent for forcing and bedding. . . . .	.06	.45	3.00
PRIMROSE QUEEN . Sulphur yellow; splendid bedder. . . . .	.06	.55	3.50
PROSERPINE , a8, carmine-rose, rich, silky and effective, beautifully shaped large flower. . . . .	.08	.85	6.00
PROSPERITY . Dark pink; good forcer and bedder. . . . .	.06	.55	3.50
ROSE GRISDELIN . Delicate rose flushed white, the best rose forcer, and a good bedder. . . . .	.06	.45	3.00
THOMAS MOORE , b10, orange-scarlet, effective large Tulip; sweet scented. . . . .	.06	.55	3.75
VERMILION BRILLIANT , b8, deep dazzling vermilion; extra fine for pots and massing. . . . .	.07	.75	5.00
WHITE SWAN , b9, large, pure white egg-shaped flower on tall stems. . . . .	.06	.55	3.50
YELLOW PRINCE , b7, golden yellow, extra large and showy, scented as a Tea Rose. . . . .	.07	.65	4.50
SEPARATE COLORS , Pink, Red, Striped Red and Yellow, Violet and Purple, White and Yellow. . . . .	.06	.45	3.25
FINE MIXED , including all colors and shades. . . . .	.06	.40	2.75

Prices per dozen and single bulb include postage.

Double Tulips

This class of Tulips is one of the most valuable. The earlier varieties are admirably adapted for pot culture and form a pleasing contrast to the Single Tulips in the greenhouse or conservatory. When planted in the open border they are very showy, and a succession of bloom may be had by a judicious selection from the earlier and later varieties. The Emperor Rubrorum and Murillo form a dense mass of bloom when grown in beds and the flowers remain in perfection of bloom longer than those of the single varieties. For Cultural Directions, etc., See Tulips, Page 1.

- COURONNE D'OR**, b8, golden yellow flushed orange, large handsome flower; excellent for growing in pots or beds. 7c each; 75c per dozen; \$5.00 per 100.
- GLORIA SOLIS**, a7, deep crimson with broad golden margin; very large. 7c each; 75c per dozen; \$5.00 per 100.
- IMPERATOR RUBRORUM**, a9, rich crimson-scarlet; extra fine for forcing. 8c each; 80c per dozen; \$5.75 per 100.
- LA CANDEUR**, b8, pure white, extensively grown for bedding. 7c each; 75c per dozen; \$5.00 per 100.
- LUCRETIA**, deep pink, extra large. 7c each; 60c per dozen; \$4.25 per 100.
- MURILLO**, b8, blush-white shaded rose, large flowers; fine for forcing and bedding. 7c each; 60c per dozen; \$4.00 per 100.
- RUBRA MAXIMA**, a9, dark crimson-scarlet; splendid early forcer and good bedder. 7c each; 75c per dozen; \$5.00 per 100.
- SCHOONOORD**, b10, the finest double white; a sport from Murillo. 7c each; 75c per dozen; \$5.00 per 100.
- TEA ROSE**, b10, saffron-yellow changing to rosy apricot; good forcer for growing in pots and pans. 7c each; 65c per dozen; \$4.50 per 100.
- TOURNESOL**, a7, scarlet margined yellow; one of the best for forcing. 8c each; 80c per dozen; \$5.50 per 100.
- SEPARATE COLORS**, Pink, Red, Striped Red and Yellow, White and Yellow. 7c each; 60c per dozen; \$4.00 per 100.
- FINE MIXED**, including all colors and shades. 6c each; 55c per dozen; \$3.50 per 100.
- Prices Per Dozen and Single Bulb Include Postage.
- McCULLOUGH'S "NORWOOD"** collection of **DOUBLE TULIPS** consists of 200 superfine, mixed double Tulips. Price, \$7.00, not prepaid.



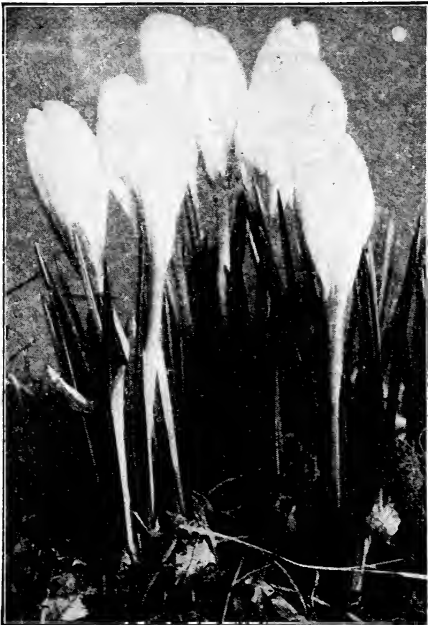
DOUBLE TULIPS

IF YOU WANT FLOWERS

In your House this Winter or in your Garden next Spring
YOU MUST PLANT BULBS THIS FALL

CROCUS

This brilliant and universally admired spring flower will thrive in any soil or situation, but to be brought to the highest perfection it should be grown in an open bed or border of deep, rich, sandy loam. When planted in large groups or lines of distinct colors, the effect is very striking and the bulbs are now offered so cheap as to justify their liberal use. They are invaluable for pot culture. To secure a succession of bloom, commence planting early in October; 6 to 8 bulbs in a pot (the named varieties are best for this purpose), using rich soil and planting about an inch deep. Place the pots on a surface of ashes, cover the top one inch deep with soil until the leaves appear, when they may be removed to the house.



CROCUS

LARGE FLOWERING NAMED CROCUS

These are large bulbs of the best varieties, remarkable for richness of color and size of their flowers, and are the best to use for pot culture or where extra fine results are wanted.

	Per Doz.	Per 100
ALBION , lavender, striped white and violet.....	\$0.40	\$2.75
BARON BRUNOW , purplish mauve, shading to deep purple at tips.....	.40	2.75
KING OF BLUES , light blue, large flower.....	.40	2.75
KING OF WHITES , pure white; extra large flower...	.40	2.75
LA MAJESTEUSE , violet striped white; large flower	.40	2.75
LADY STANHOPE , white, extra large.....	.40	2.75
MAMMOTH YELLOW , large golden yellow.....	.60	4.00
MONT BLANC , large, pure white; extra.....	.40	2.75
NON PLUS ULTRA , light blue, with white border...	.40	2.75
PRINCE ALBERT , dark blue; extra fine.....	.40	2.75
SIR WALTER SCOTT , white, striped with violet...	.40	2.75
ZONATUS (Autumn Flowering). Lavender, with orange zone.....	.80	5.50

MIXED CROCUS

The bulbs offered under this head are smaller than our Large Flowering Named Sorts, but are quite satisfactory for planting in the grass or for any position out of doors.

	Per Doz.	Per 100
Blue and Purple	\$0.35	\$2.25
Striped and Variegated.....	.35	2.25
White.....	.35	2.25
Yellow.....	.40	2.75
Yellow, Extra Large.....	.45	3.00
Mixed, All Colors.....	.35	2.25

If you want flowers in your House this winter or in your Garden next spring, you must plant Bulbs this fall.

NARCISSUS OR DAFFODILS

A beautiful class of early blooming flowers, both for outdoor blooming and for use as cut flowers in the house. Their delicious fragrance, easy culture and thriftiness entitles them to the greatest popularity.

The double and single sorts are perfectly hardy and need not be disturbed oftener than once in three or four years, and not then unless they have become too much crowded by offsets.

Plant in the fall in good garden soil, about three or four inches deep and two to six inches apart.

SINGLE NARCISSUS

BARRI CONSPICUA. Large, broad yellow perianth; broad, short crown edged with scarlet; a robust, strong grower and free bloomer; should be grown in quantity for cutting, as it lasts longer than most sorts. 15c each; \$1.25 per dozen; \$8.00 per 100.

EMPEROR. Perianth deep primrose-yellow, trumpet large, rich golden yellow; one of the finest Daffodils in cultivation; should be in every collection; a magnificent flower, much prized for cutting. 15c each; \$1.50 per dozen; \$10.00 per 100.

EMPRESS. Perianth white, trumpet rich yellow, serrated at edges; a magnificent large variety, bold, erect and of rare beauty for cutting. 20c each; \$1.75 per dozen; \$12.00 per 100.

GLORY OF SASSENHEIM. Perianth white, trumpet golden yellow, a large flower and strong grower. 20c each; \$1.75 per dozen; \$12.00 per 100.

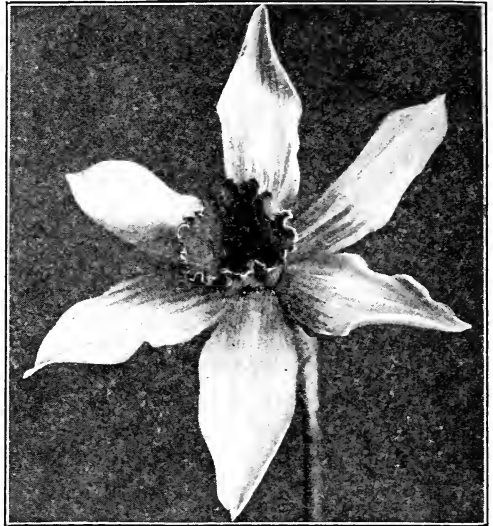
GOLDEN SPUR. Perianth deep yellow, trumpet golden yellow; a charming, highly perfumed flower, flowering early and freely. 20c each; \$1.75 per dozen; \$12.00 per 100.

LAURENS KOSTER. (Poetaz). Pure white perianth, large flower with orange yellow cup. 15c each; \$1.50 per dozen; \$10.00 per 100.

LUCIFER. Perianth white, cup intense glowing orange scarlet, splendid garden plant as color lasts well in the sun. 20c each; \$1.75 per dozen; \$12.00 per 100.

MRS. LANGTRY. Broad white perianth and white cup opening pale primrose, free flowering. 10c each; \$1.10 per dozen; \$7.50 per 100.

POETICUS. (Pheasant's Eye or Poet's.) Flowers pure white with distinct red crown; sweet scented. 8c each; 85c per dozen; \$6.00 per 100



Narcissus Barri Conspicua

POETICUS ORNATUS. Large symmetrical flower; broad white perianth with red crown, very early and valuable for forcing and cutting. 10c each; \$1.10 per dozen; \$7.50 per 100.

SIR WATKIN. Large primrose perianth, cup golden yellow, fringed, a magnificent variety. 15c each; \$1.50 per dozen; \$10.00 per 100.

VICTORIA. Perianth creamy white, trumpet rich yellow, delicately perfumed; a strong grower with massive flowers which stand boldly erect. 15c each; \$1.50 per dozen; \$10.00 per 100.

DOUBLE NARCISSUS

VON SION. The famous "Old Double Yellow Daffodil," rich golden yellow perianth and trumpet; one of the best forcing sorts. 15c each; \$1.50 per dozen; \$10.00 per 100.

Polyanthus Narcissus

PAPER WHITE GRANDIFLORA. An improved large flowering form of the Paper White, possessing all the good qualities of that popular and easily-grown variety. It is more vigorous and earlier, producing pure white flowers of large size and good substance in large trusses. Is largely used for early forcing for cut flowers, being brought in without difficulty early in December. Can be grown in bowls of water and pebbles the same as Chinese Lily. Their tall spikes of bloom bear from 6 to 12 flowers each. Selected Bulbs, 8c each; 80c per dozen; \$5.50 per 100.

Mammoth Bulbs, of special value for growing in water. 10c each; \$1.10 per dozen; \$7.50 per 100.

LILY BOWLS. To hold one bulb, 25c each; 3 bulbs, 50c each. Cannot be sent by mail.

PEBBLES, for filling Lily Bowls, 10c per quart.



Narcissus Paper White Grandiflora

MUSHROOM SPAWN

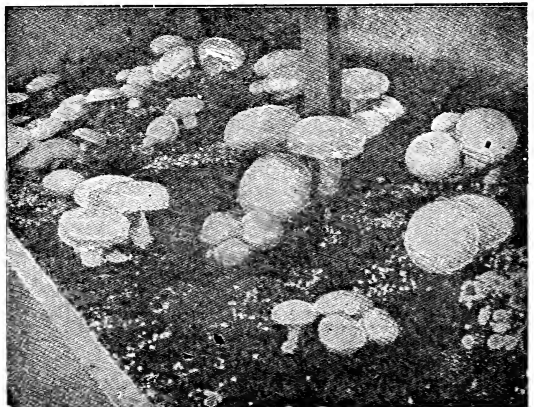
(One brick of Spawn is sufficient for a bed 2x6 feet.)

American Made Pure Culture Mushroom Spawn. A very superior article, made in this country from carefully selected spawn, which it is claimed is much more vigorous than the imported article, and will produce Mushrooms of a very superior quality and flavor. The popularity of Pure Culture Spawn is increasing rapidly and many of the large growers are now using it. They claim it is a surer crop. Amateurs have much the best results with this kind. By express—customer to pay charges—per brick, 30c; 5 bricks, \$1.25; 100 bricks, \$20.00.

By mail, 35c per brick; 5 bricks, \$1.50; postpaid.

Treatise on Mushroom Culture, 10c, or given with an order of 10 bricks of Mushroom Spawn.

MUSHROOMS, HOW TO GROW THEM. (Wm. Falconer.) The most practical work on the subject. \$1.75



DUTCH HYACINTHS

The Hyacinth is so well known and esteemed that any description of its many good qualities is needless. The list now offered includes nearly every shade of red, white, blue, yellow, etc.

For planting Hyacinths in open ground, the preferable season is September to November, but they can be set out at any later time as long as the ground is open. Plant about six inches deep, and from five to six inches apart. After the ground has frozen tolerably hard in early winter, cover with a few inches of dry litter, leaves, evergreen boughs or coarse manure.

Choice Named Single Hyacinths

EXTRA SELECTED FIRST SIZE BULBS

Prices Per Dozen and Single Bulb Include Postage.

We offer the following named varieties at the uniform price of 25c each; \$2.75 per dozen; \$20.00 per 100.

SINGLE RED, ROSE AND PINK

ETNA, brilliant pink, large spike and flower, late flowering.

GARIBALDI, brilliant carmine, very early.

GENERAL DE WET, light pink, large spike, good flower.

GENERAL PELISSIER, deep crimson, fine truss, early.

GERTRUDE, deep rose, fine compact spike.

GIGANTEA, delicate pink, large bells.

LADY DERBY, bright rose, large spike and flower, excellent for forcing or pot culture, large bulb.

LA VICTOIRE, brilliant dark pink, very large spike; one of the best.

MARCONI, light pink, large spike and flower; extra fine.

MARIE CATHERINA, deep red, large spike.

MORENO, waxy pink; large truss and bells; extra fine variety.

QUEEN OF PINKS, brilliant pink; large flower and spike; a great acquisition—one of the best.

ROBT. STEIGER, bright crimson, a fine compact spike.

ROI DES BELGES, bright scarlet, fine truss.

SINGLE PURE AND TINTED WHITE

ALBERTINE, pure white, early, good forcing variety.

ARENTINE ARENDSSEN, pure white, large spike and flower, very early; splendid for forcing.

BLANCHEUR, pure white, large broad truss.

BRITISH QUEEN, pure white, large truss; very early.

CORREGIO, the large, fleshy bells are snow white, and form a perfect truss of great beauty and size; good forcer.

GENERAL VETTER, bluish white, very large spike; splendid early forcer.

GRANDE BLANCHE, bluish white, large spike and flower; early.

LA GRANDESSE, pure white; with immense bells; one of the best in cultivation.

L'INNOCENCE, pure white, extra large truss.

SINGLE BLUE, LAVENDER AND PURPLE

CAPTAIN BOYTON, bright lavender blue, with silvery shading; handsome long spike.

ENCHANTESS, delicate porcelain blue, large truss.

GRAND MAITRE, deep porcelain blue, large truss.

GRAND MONARQUE, light blue, large compact spike.

KING OF BLUES, dark rich blue, splendid spike.

MARIE, dark purple, very large spike.

PERLE BRILLIANTE, light blue, large spike and flowers; late flowering.

QUEEN OF BLUES, beautiful azure blue, large bells and handsome truss; late.

REGULUS, light blue, large bells and spike.

SINGLE YELLOW

CITY OF HAARLEM, golden yellow, large well formed truss, extra fine.

KING OF YELLOWS, pure yellow, large bell and spike.

YELLOW HAMMER, golden yellow, fine large spike; one of the best.

The above named Hyacinths, 25c each; \$2.75 per dozen; \$20.00 per 100.



Select Second-Size Named Single Hyacinths

We furnish them in the following selected varieties at the uniform price of 20c each; \$2.00 per dozen; \$15.00 per 100.

SINGLE RED, ROSE AND PINK

CARDINAL WISEMAN, charming bright rose-pink, large spike.

GENERAL PELISSIER, deep crimson, fine truss, early.

GERTRUDE, deep rose, fine compact spike.

GIGANTEA, delicate pink, large bells.

LADY DERBY, bright rose, large spike and flower, excellent for forcing or pot culture, large bulb.

QUEEN OF PINKS, brilliant pink, large flower and spike.

ROBT. STEIGER, bright crimson, a fine compact spike.

ROI DES BELGES, bright scarlet, fine truss.

SINGLE PURE AND TINTED WHITE

ALBERTINE, pure white, early, good forcing variety.

ARENTINE ARENDSSEN, pure white, large spike, good forcer.

CORREGIO, pure white, large truss, good forcer.

GRANDE BLANCHE, bluish white, large spike and flowers; early.

LA GRANDESSE, pure white, with immense bells, one of the best in cultivation.

L'INNOCENCE, pure white, extra large truss.

SINGLE BLUE, LAVENDER AND PURPLE

ENCHANTESS, porcelain blue, large compact truss.

GRAND MAITRE, deep porcelain blue, large truss.

KING OF BLUES, dark, rich blue, splendid spike.

PERLE BRILLIANT, light blue, large spike and flowers.

QUEEN OF BLUES, beautiful azure blue, large bells and handsome truss; late.

SINGLE YELLOW

KING OF YELLOWS, pure yellow, large bell and spike.

YELLOW HAMMER, golden yellow, large spike.

Above named Hyacinths, 20c each; \$2.00 per dozen; \$15.00 per 100.

Prices per dozen and single bulb include postage.



Belgian

Collections of Named Single Hyacinths

Selection for Growing in Water.
This selection is made up of sorts which are especially adapted for the purpose.
12 distinct named varieties.....\$2.75

Selection for Growing in Pots.
A selection of distinct sorts best adapted for the purpose.
12 distinct named varieties.....\$2.75

Choice Un-named Single Hyacinths

FOR BEDDING AND FORCING IN SEPARATE COLORS AND MIXED SHADES
These are made up of varieties selected for beds and borders, or for forcing for cut flowers, and are of such superior quality as to be entirely satisfactory to florists who use large quantities of them. We offer the following unnamed varieties at the uniform price of 15c each; \$1.75 per dozen; \$12.00 per 100.

Red, mixed shades. Pure White. Dark Blue and Purple. Yellow
Rose. White, tinted. Light Blue. MIXED, all colors

Miniature or Dutch Roman Hyacinths

These may be planted close together in pots or boxes, also in beds in the open ground with charming effect. We can furnish named varieties in the following colors: Dark Red, Rose and Pink. Dark Blue, Light Blue, Pure White, and All Colors Mixed.
12c each; \$1.00 per dozen; \$7.00 per 100.

HYACINTH GLASSES

BELGIAN OR TALL SHAPE. Blue, Claret, Crystal and Green colors. 35c each; \$3.50 per dozen.

MATT GREEN HYACINTH VASES. Tye pattern. 50c each; \$5.00 per dozen.
Hyacinth Glasses and Lily Bowls CAN NOT be sent by mail.



Tye Pattern

Chionodoxa

GLORY OF THE SNOW

A hardy, early flowering bulbous plant which is a good companion to the Scilla and Snowdrop.

GIGANTEA. Light blue, white eye, large flowered. 7c each; 70c per dozen; \$5.00 per 100.

LUCILLAÆ. Bright blue with white eye. 5c each; 45c per dozen; \$3.00 per 100.

Grape Hyacinths

MUSCARIA

They are something like the Hyacinth but the clusters and the individual flowers are smaller and of different shape; invaluable for naturalization.

BOTRYOIDES ALBA. White. 8c each; 80c per dozen; \$6.50 per 100.

BOTRYOIDES COERULEA. Blue. 5c each; 35c per dozen; \$2.50 per 100.

HEAVENLY BLUE. The best and largest of the Grape Hyacinths. Good for pot culture as well as for outdoors. 5c each; 45c per dozen; \$3.00 per 100.

Calla Lilies

RICHARDIA

An old favorite, and of easy culture, the only requisite for successful culture being rich soil and plenty of water when growing. By allowing them to rest through the summer, an abundance of bloom may be had the following winter.

WHITE CALLA OR LILY OF THE NILE

This old favorite is too well known to require any description.

Monster Bulbs, postpaid. 35c each; \$3.50 per dozen

Extra Large Bulbs, postpaid. 30c each; \$3.00 per dozen

Large Bulbs, postpaid. 25c each; \$2.50 per dozen

ELLIOTTIANA. A yellow Calla of great beauty. It has the habit of growth of the white variety, with flowers of same size and shape, but of a rich golden yellow color; the foliage is dark green, with a number of creamy white spots, which add much to its beauty. 35c each; \$3.50 per dozen.

GODFREY OR EVERBLOOMING CALLA. Short, sturdy growth; very free flowering; medium sized white flowers; excellent for cutting. 25c each; \$2.50 per dozen.

Extra Large Bulbs, 35c each; \$3.50 per dozen.

Scilla Squills—Harebell

Very early flowering bulbs, doing well in ordinary soil, producing fine, graceful spikes of bell-shaped flowers.

The Scilla Campanulata are splendid for naturalizing, because they will flower in shady places.

Scilla Siberica is used as a companion to Crocus for borders or massing.

Campanulata Blue Queen. Large bright blue flowers. 5c each; 50c per dozen; \$3.50 per 100.

Campanulata Rose Queen. Soft lilac rose, free flowering. 10c each; \$1.00 per dozen; \$7.00 per 100.

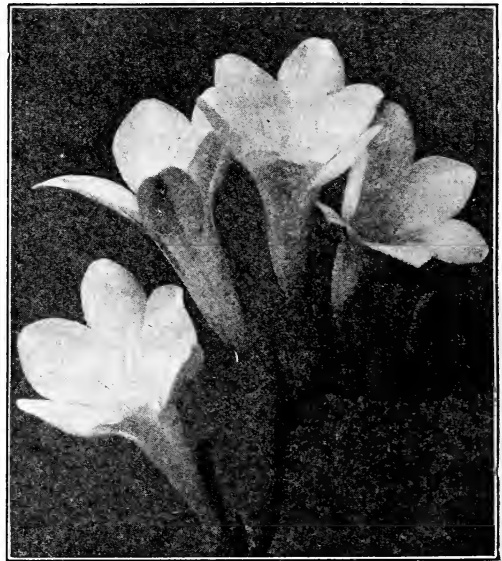
Siberica. A perfect gem, with flowers of richest blue, dwarf and hardy, excellent planted with Crocus and Snowdrops, or in borders and massing. 6c each; 65c per dozen; \$4.50 per 100.

Snowdrops

Plant the bulbs in September or October—the earlier the better—to enable them to become well-established before freezing weather. Set about two or three inches deep, and one inch apart, in clumps or triple rows; if planted singly they are not conspicuous.

Single Flowering, 5c each; 55c per dozen; \$3.75 per 100.

Double Flowering, 8c each; 80c per dozen; \$5.00 per 100.



Freesia, Improved Purity

Freesia

Six bulbs should be planted in a four inch pot. They force rapidly, and can be had in bloom by Christmas if desired. The flowers are produced six to eight on stems about nine inches high.

IMPROVED PURITY. A distinct and greatly improved type producing large sprays of pure white flowers with a yellow blotched throat of immense size and delicious fragrance. It is very free blooming and of great value for forcing for cut flowers.

Large Bulbs. 25c per dozen; \$2.00 per 100

Mammoth Bulbs. 45c per dozen; 3.25 per 100

Monster Bulbs. 60c per dozen; 4.00 per 100

RAINBOW. We can now supply this long waited for, beautiful colored Freesia.

California. The best yellow 80c per dozen; \$6.00 per 100

Giant Lavender. The best lavender, strong grower, large flower. 80c per dozen; \$6.00 per 100

Pershing, Pink, large bulbs. 80c per dozen; 6.00 per 100

Finest Mixed, all colors. 65c per dozen; 5.00 per 100

LILIES

No class of plants capable of being cultivated out of doors possesses so many charms. They should be planted in good, rich, loamy soil, abundantly mixed with very rotten cow manure. Plant about four inches deep, and during the winter it is advisable to cover the surface of the bed with a thin layer of manure, which will not only afford a slight protection to the bulbs, but will materially enrich the soil. In spring the manure may either be removed or dug in between the rows.

Orders for Lilies cannot be filled before November, excepting *Candidum* and *Harrisii*, which are ready August 1.

Prices on single bulbs are postpaid. By the dozen or hundred, they will be forwarded at expense of purchaser.

AURATUM. (Golden-banded Lily.) Undoubtedly one of the finest. Its large, graceful, fragrant flowers are composed of six petals of a delicate ivory-white color, thickly studded with chocolate crimson spots, and striped through the center with a golden yellow band; 3 to 5 feet.

Large Bulbs, 8 to 9 inches, 30c each; \$2.75 per dozen; \$20.00 per 100.

Extra Large Bulbs, 9 to 11 inches, 40c each; \$4.00 per dozen; \$30.00 per 100.

CANDIDUM. (Annunciation or Madonna Lily.) The flowers are pure white and very fragrant, borne on long stems. To succeed with it, it should be planted early in the autumn, so that it can make some growth before frost; 3 to 4 feet; May-June.

Large Bulbs, 25c each; \$2.50 per dozen; \$17.50 per 100.

Extra Large Bulbs, 35c each; \$3.50 per dozen; \$25.00 per 100.

HARRISII. (Bermuda Easter Lily.) This splendid Lily is undoubtedly one of the best for house culture, as it comes quickly into bloom and flowers freely. The flowers are trumpet-shaped, pure waxy-white and delightfully fragrant.

Large Bulbs, 7 to 9 inches; 35c each; \$3.50 per dozen; \$25.00 per 100.

LONGIFLORUM FORMOSUM. The plant grows about 3 feet high and produces beautiful, snow-white, trumpet-



Lilium Auratum

shaped flowers, 6 to 8 inches long. It is perfectly hardy, blooming in the open in June and July. This Lily is also a very important winter flowering type.

Large Bulbs, 7 to 9 inches, 25c each; \$2.50 per dozen; \$17.50 per 100.

Extra Large Bulbs, 9 to 10 inches, 35c each; \$3.50 per dozen; \$25.00 per 100.

LONGIFLORUM GIGANTEUM. A splendid type, later flowering than the others, but of strong, free, healthy growth, and while it can be forced into bloom for Easter it is just the thing for Decoration Day and later flowering; quite hardy and good for outdoor planting.

Large Bulbs, 7 to 9 inches 25c each; \$2.50 per dozen; \$17.50 per 100.

REGAL (The Regal Lily.) This grand new species is absolutely hardy and is excellent for forcing under glass. The white flowers are long, trumpet-shaped, slightly suffused with pink, with a beautiful shade of canary yellow at the center, extending part way up the trumpet. It is delightfully perfumed, but without the heavy, oppressive odor of most Lilies. 40c each; \$4.75 per dozen; \$37.50 per 100.

SPECIOSUM. "Japan Lily." The varieties of this class are magnificent border plants, and also excellent for pot culture. All are perfectly hardy, and are among the most satisfactory Lilies to grow.

Speciosum Album. Pure white, very fragrant.

Large Bulbs. 8 to 9 inches, 60c each; \$6.00 per dozen; \$40.00 per 100.

Speciosum Rubrum or Roseum. White, suffused and spotted with crimson.

Large Bulbs, 8 to 9 inches. 30c each; \$2.75 per dozen; \$20.00 per 100.

Extra Large Bulbs, 9 to 11 inches, 40c each; \$4.00 per dozen; \$30.00 per 100.

TIGRINUM. "Tiger Lily." Orange-salmon, spotted with black. 30c each; \$2.75 per dozen; \$20.00 per 100.

LILY OF THE VALLEY

This popular and fragrant flower should receive more attention than is usually given. We offer strong clumps suitable for out door planting.

50c each; \$5.00 per dozen; \$40.00 per 100; by mail, 60c each.

OXALIS

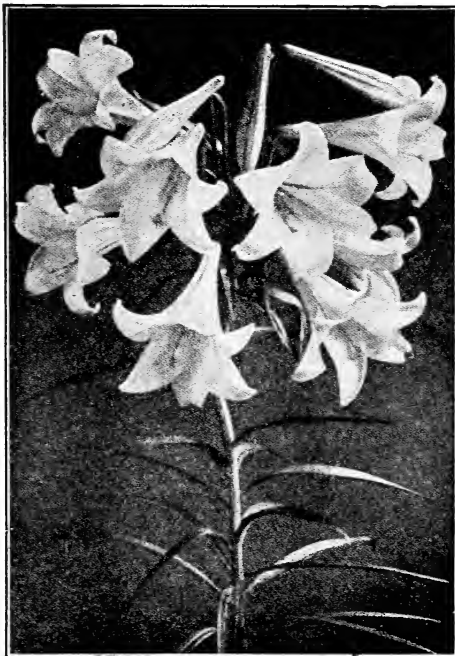
A splendid winter-blooming plant for pot culture. The flowers are produced in great abundance. It is very easily cultivated.

Grand Duchess, Lavender, 5c each; 35c per dozen; \$2.50 per 100.

Grand Duchess, Pink, 5c each; 35c per dozen; \$2.50 per 100.

Grand Duchess, Yellow, 5c each; 35c per dozen; \$2.50 per 100.

Grand Duchess, Finest Mixed, 5c each; 30c per dozen; \$2.00 per 100.



Lilium Longiflorum Giganteum

If you contemplate making a Lily bed, kindly give us dimensions of same, and we will be pleased to submit you an estimate, stating suitable varieties and lowest cost.

McCULLOUGH'S GRASS SEEDS

We expect to adhere closely to prices quoted in this catalog, but owing to market fluctuations, it is impossible to guarantee prices. All orders will be filled at lowest market price on the day of receipt.



McCullough's "Suburban" Lawn Grass Seed

WILL MAKE A BETTER LAWN THAN TURF OR SOD

McCullough's "Suburban"
Lawn Grass Seed

IS a mixture of the finest quality domestic and imported grasses. It contains a large proportion of Kentucky Blue Grass, one of the best Lawn Grasses for the central states, but which, on account of slow growth, must be mixed with other quick-growing sorts for best results. Our mixture is the result of several years experimenting, and, as we now offer it, is unequaled. The quantity required for making a new lawn is 75 to 100 pounds per acre, or for renovating old lawns, 40 to 50 pounds per acre. For a plot 10 x 25 or 250 square feet, one pound is required for a new lawn, or about one-half pound for renovating.

Our "Suburban" Lawn Seed mixture is very much to be preferred to any single grass, because the several varieties of grasses which compose it, mature at different seasons of the year, thus keeping the greensward in good color and condition during the hot weather, not losing its color, as the single variety is liable to do.

How to Make a Lawn.—A well-kept lawn instantly commands the attention of all lovers of the beautiful in Nature, and is an unfailing mark of intelligence and taste. To obtain best results the main point is to start right. Seed will make a better lawn than turf or sod. The best soil is a good medium texture; the surface should be thoroughly pulverized and smoothed to the desired grade; remove all large stones, roots and hardened pieces of earth that can not be readily broken, ample time being allowed for the thorough settling of the soil, which is greatly aided by a few heavy showers of rain. When the soil is firm, level and suitably moist, sow "Suburban" Lawn Grass Seed at the rate of 75 to 100 pounds per acre. It is unwise to be too economical in the quantity of seed used, if the best results are desired. The seed should be sown broadcast and as evenly as possible, then give a thorough rolling or tamp well with the back of a spade. The seed must be well firmed in the soil. When the young grass attains sufficient height, it should be mown with a lawn mower every week or ten days, according to the season.

General Surface Renovating.—When your lawn has been established, you will find it to your advantage to lightly re-seed each season. As early as possible, carefully rake off all dead leaves, etc., and give the lawn a dressing of LAWN AND GARDEN GROWER, or PURE BONE MEAL at the rate of at least 500 pounds per acre, and rake in, after which sow our "Suburban" Lawn Grass Seed at the rate of 40 to 50 lbs. to the acre; roll thoroughly or tamp with the back of a spade.

Prices:— $\frac{1}{2}$ lb., 30c; 1 lb., 50c; 5 lbs., \$2.25; 10 lbs., \$4.25; 20 lbs., \$8.25.

"SHADY PLACE" LAWN GRASS SEED

$\frac{1}{2}$ lb., 35c; 1 lb., 55c; 5 lbs., \$2.50; 10 lbs., \$4.75; 20 lbs., \$9.25.

"CENTRAL PARK" LAWN GRASS SEED

$\frac{1}{2}$ lb., 25c; 1 lb., 40c; 5 lbs., \$1.75; 10 lbs., \$3.25; 20 lbs., \$6.25.

PUTTING GREEN MIXTURE

$\frac{1}{2}$ lb., 40c; 1 lb., 75c; 5 lbs., \$3.50; 10 lbs., \$6.25; 20 lbs., \$12.00.

FAIRWAY MIXTURE

1 lb., 45c; 5 lbs., \$2.00; 50 lbs., \$18.00; 100 lbs., \$35.00.

TERRACE MIXTURE

$\frac{1}{2}$ lb., 25c; 1 lb., 45c; 5 lbs., \$2.00; 10 lbs., \$3.75; 20 lbs., \$7.25.

KENTUCKY BLUE GRASS

1 lb., 50c; 5 lbs., \$2.25; 10 lbs., \$4.25; 20 lbs., \$8.25.

FANCY RED TOP GRASS

1 lb., 45c; 10 lbs., \$4.25; per 100 lbs., \$35.00.

LAWN AND GARDEN GROWER and PURE BONE MEAL are the Best Fertilizers for Lawns. See Fertilizers.

MEADOW FESCUE (*Festuca Pratensis*)

1 lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25.

OREGON RYE GRASS

1 lb., 25c; 5 lbs., \$1.00; 10 lbs., \$1.75.

AMERICAN CREEPING BENT, (Seaside Bent)

1 lb., \$2.50; 3 lbs., \$7.25; 5 lbs., \$11.50.

PRINCE EDWARD ISLAND BENT

A pure, hardy strain of Rhode Island Bent (*Agrostis Tenuis*). Send for descriptive circular.

1 lb., \$1.50; 5 lbs., \$7.25; 10 lbs., \$14.25.

SOUTH GERMAN MIXED BENT

1 lb., \$1.25; 5 lbs., \$6.00; 10 lbs., \$11.75.

RED OR CHEWINGS FESCUE (*Festuca Rubra*)

Per lb., 50c; 10 lbs., \$4.50.

CANADIAN BLUE GRASS (*Poa Compressa*)

1 lb., 40c; 5 lbs., \$1.75; 10 lbs., \$3.25.

NOTE.—As prices are subject to market changes we wish our friends would communicate with us when in need of grass seeds and we will quote firm prices; good for your order by return mail.

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

GRASS SEEDS—Continued

AWNLESS BROME GRASS (*Bromus Inermis*)
1 lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25.

BERMUDA GRASS (*Cynodon Dactylon*)
Price on application.

HARD FESCUE (*Festuca Duriuscula*)
1 lb., 55c; 5 lbs., \$2.50; 10 lbs., \$4.75.

ITALIAN RYE GRASS (*Lolium Italicum*)
1 lb., 30c; 10 lbs., \$2.75; 100 lbs., \$18.00.

ORCHARD GRASS
1 lb., 35c; 5 lbs., \$1.50; 10 lbs., \$2.75.

ROUGH STALKED MEADOW GRASS
1 lb., 85c; 5 lbs., \$4.50; 10 lbs., \$7.50.

SHEEP'S FESCUE (*Festuca Ovina*)
1 lb., 55c; 5 lbs., \$2.50; 10 lbs., \$4.75.

TALL MEADOW OAT GRASS (*Avena Elatior*)
1 lb., 25c; 5 lbs., \$1.00; 10 lbs., \$1.75.

TIMOTHY (*Phleum Pratense*)
1 lb., 15c; 5 lbs., 50c; 10 lbs., 90c.

WOOD MEADOW GRASS
1 lb., 60c; 5 lbs., \$2.75.

McCULLOUGH'S MIXED GRASSES FOR MEADOWS AND PASTURES FIRST QUALITY MIXTURES

For Meadows
Per lb., 40c; 10 lbs., \$3.90; 20 lbs., \$7.60; 100 lbs., \$35.00.
For Permanent Pasture
Per lb., 40c; 10 lbs., \$3.90; 20 lbs., \$7.60; 100 lbs., \$35.00.
For Pasture and Hay in Orchard and Other Shady Places
Per lb., 40c; 10 lbs., \$3.90; 20 lbs., \$7.60; 100 lbs., \$35.00.

We supply **SECOND QUALITY MIXTURES** of any of the above at a reduction of 2c per pound. We specialize in Grass Seeds of all kinds and for every purpose. For larger quantities—write for special prices. Prices fluctuate considerably throughout the year. The prices now quoted are those ruling as we go to press, and may be higher or lower as the season advances.

Postage must be added if wanted by mail. See Postal Rates, 2nd page of cover.

For Marshy Grounds
Per lb., 40c; 10 lbs., \$3.90; 20 lbs., \$7.60; 100 lbs., \$35.00.
For Sandy and Rocky Grounds
Per lb., 40c; 10 lbs., \$3.90; 20 lbs., \$7.60; 100 lbs., \$35.00.
Postage must be added if wanted by mail. See Postal Rates, Second Page of Cover.

McCullough's High Grade Clover Seeds

ALFALFA OR LUCERNE (*Medicago Sativa*)
Alfalfa is one of the most profitable crops the dairyman or stock farmer can raise, due to the high yield of palatable hay which contains a large percentage of protein. Alfalfa is best adapted to steep limestone hillsides and gravelly river bottoms, where the water can get away from the roots. Sow in spring or fall at rate of 15 to 20 lbs. per acre. We offer American grown seed raised in the Northwest and West. It is free as possible from noxious weeds. (60 lbs. per bushel.)

GRIMM ALFALFA

This variety of Alfalfa is being raised all over the United States. It seems to be much harder than common Alfalfa, which is due to its root system, which is somewhat variable, enabling it to withstand freezing and thawing weather, droughts and other hardships which the common alfalfa will not endure.

Genuine Ontario Grimm from fields of the original Lynn Grimm strain is giving fully as good satisfaction and is lower in price than North-Western seed.

We handle both North-Western and Ontario Grimm Alfalfa. Sow in the spring or fall of year at the rate of 10 to 15 lbs. per acre. Prices on application.

CANADIAN VARIEGATED ALFALFA

This is considered by many to be fully as hardy as Grimm and is of the Grimm type.

We recommend it very highly and it can be obtained at a small advance in price over common Alfalfa.

In Ohio, Grimm or Canadian Variegated Alfalfa is the best insurance against winter killing and thinning out of stands.

Where winter killing is not a factor, common Alfalfa from Utah and sections north gives satisfaction.

CRIMSON OR SCARLET CLOVER

(*Trifolium Incarnatum*)

CRIMSON SCARLET or CARNATION CLOVER.
This Clover grows about two feet high, makes good hay and is excellent for feeding green, the yield being immense. Should be sown in August to October, also early spring. 12 to 15 lbs. per acre.

BOKHARA OR SWEET CLOVER

WHITE FLOWERED. (*Melilotus Alba*.) It will make an excellent growth on any lime lands and stiffest clays, or any soils so hard and barren that they will sustain no other vegetation.

WHITE FLOWERED; HULLED SEED, SCARIFIED.
Market price.

YELLOW FLOWERED. (*Melilotus Officialis*.) Biennial. It resembles the White Sweet Clover, but blooms about three weeks earlier, produces finer stalks and does not grow as tall. It makes first-class hay and excellent pasture. It will grow on any kind of soil, and, being deep rooted, remains green in the driest season.

YELLOW FLOWERED; HULLED SEED, SCARIFIED.
Market price.

UNHULLED SEED of both varieties is very slow to germinate. Unhulled Seed (30 lbs. per bushel). Hulled Seed (60 lbs. per bushel).

WHITE OR DUTCH CLOVER

(*Trifolium Repens*)

1 lb., 70c; 5 lbs. \$3.25; 10 lbs., \$6.25.

ALSIKE OR SWEDISH CLOVER

(*Trifolium Hybridum*)

Price on application.

JAPAN CLOVER (*Lespedeza Striata*)

Price on application.

RED CLOVER—MEDIUM

(*Trifolium Pratense*)

Price on application.

VETCHES OR TARES

SAND, HARY OR WINTER VETCH. (*Vicia Villosa*.)
Price on application.

DWARF ESSEX RAPE

Price on application.

SEND FOR OUR SPECIAL PRICE LIST OF CLOVER AND GRASS SEEDS.

INOCULATE ALFALFA AND OTHER CLOVERS AND VETCHES WITH NITRAGIN

NITRAGIN is an old, reliable inoculator. The contents are always fresh, living bacteria to feed your plants. Easy to use. Sent by mail or express, prepaid.

FOR Alfalfa, Clover, Vetch, Peas and Beans
1/4 bushel size (15 lbs. of Seed).....\$0.40
1/2 bushel size (30 lbs. of Seed).....0.60
1 bushel size (60 lbs. of Seed).....1.00
5 bushel size (300 lbs. of Seed).....4.75

State For What Crop You Want the Nitragin.

FOR Soy Beans and Cow Peas
1/2 bushel size (30 lbs. of Seed).....\$0.40
1 bushel size (60 lbs. of Seed).....0.70
5 bushel size (300 lbs. of Seed).....2.50

In ordering, be sure to name crop to be inoculated.

GARDEN SIZE NITRAGIN—Beans, Peas and Sweet Peas, (3 in one), 20c each.



HARDY HERBACEOUS PERENNIAL PLANTS

All plants are forwarded on receipt of order (weather permitting) unless instructed to the contrary, and are sent by Express, purchaser paying charges. We can forward plants by Parcel Post, and if wanted sent in this way add 5c each, or 15c per dozen. Six plants of a kind at dozen rate.

ACHILLEA (Milfoil or Yarrow)

Boule De Neige. (Ball of Snow.) An improved variety bearing pure white flowers of perfect form all summer. Fine for cut flowers. 40c each; 3 for 75c; \$2.50 per dozen.

ANCHUSA ITALICA

Dropmore Variety. Remarkable for its free and continual flowering all summer and the beautiful gentian-blue of its flowers; grows about five feet high. 45c each; 3 for 90c; \$3.00 per dozen.

ANTHEMIS (Marguerite)

Tinctoria. Handsome, finely cut foliage, and large, golden yellow flowers produced all summer. Succeeds in the poorest soil. 35c each; 3 for 60c; \$2.00 per dozen.

AQUILEGIA (Columbine)

Long Spurred Hybrids. Beautiful variations from the standard type. 40c each; 3 for 75c; \$2.50 per dozen.

Mrs. Scott Elliot Hybrids. Wonderful colors with very long-spurred flowers. Best mixture grown. Our stock is from seed from this source, absolutely true strain. 45c each; 3 for 90c; \$3.00 per dozen.

ASTERS

(Michaelmas Daisies or Starworts)

Charm. Very double violet-blue flowers. 50c each; 3 for \$1.05; \$3.50 per dozen.

Elta. Double flowers of pale lilac. 50c each; 3 for \$1.05; \$3.50 per dozen.

Erica. A beautiful clear pink; large double flowers. 50c each; 3 for \$1.05; \$3.50 per dozen.

Joan Vaughan. Large, semi-double flowers of deepest blue. 50c each; 3 for \$1.05; \$3.50 per dozen.

Lady Lloyd. A very fine, clear rosepink. Lasts exceedingly well. 50c each; 3 for \$1.05; \$3.50 per dozen.

Novae-Angliae Roseum Superbum. Color almost red and a profuse bloomer. One of the best. 50c each; 3 for \$1.05; \$3.50 per dozen.

Perry's White. The finest white Michaelmas Daisy yet introduced; perfect in habit and remarkably free flowering. 45c each; 3 for 90c; \$3.00 per dozen.

BAPTISIA (False Indigo)

Australis. Grows about 2 feet high with dark green, deeply-cut foliage and spikes of dark blue flowers in June. 40c each; 3 for 75c; \$2.50 per dozen.

CAMPANULAS (Bell Flower)

CUP AND SAUCER CANTERBURY BELLS

(Campanula Calycanthema).

Large semi-double flowers, each resembling a cup and saucer.

Pink. Beautiful variety with charming pink flowers. 35c each; 3 for 60c; \$2.00 per dozen.

White. Similar to the preceding, but the flowers are white. 35c each; 3 for 60c; \$2.00 per dozen.

Blue. Beautiful light blue flowers. 35c each; 3 for 60c; \$2.00 per dozen.

CARNATION (Hardy Border)

Choice Mixed. Seedlings from seed supplied by a specialist. Strong plants that will furnish an abundance of flowers. 40c each; 3 for 75c; \$2.50 per dozen.

COREOPSIS

Lanceolata Grandiflora. Plant grows eighteen inches high, and produces its bright golden yellow flowers in great profusion the entire season. 35c each; 3 for 60c; \$2.00 per dozen.

DELPHINIUMS (Perennial Larkspur)

Belladonna Hybrids. The freest and most continuous bloomer of all. The clear turquoise-blue flowers are not surpassed by any. 3 feet. 40c each; 3 for 75c; \$2.50 per dozen.

Bellamosa. A dark blue of the type of Belladonna with the color of the old Formosum variety, but not liable to mildew like the latter and of stronger growth. 40c each; 3 for 75c; \$2.50 per dozen.

Giant Hybrids. Unquestionably the finest strain of mixed hybrids ever offered. The plants are of strong, vigorous habit, with large flowers on spikes two feet and over. 45c each; 3 for 90c; \$3.00 per dozen.

GAILLARDIA (Blanket Flower)

Grandiflora. Beginning to flower in June, they continue one mass of bloom the entire summer. Flowers three inches in diameter; center dark reddish-brown; petals orange to crimson. 40c each; 3 for 75c; \$2.50 per dozen.



GYPSOPHILA (Baby's Breath)

Paniculata. Loose, feathery sprays of white flowers, during August and September, making a mist-like effect. 40c each; 3 for 75c; \$2.50 per dozen.

GRASSES, Ornamental. (See page 11.)

HIBISCUS (Mallow)

Mallow Marvels, Giant-flowering. They grow from 5 to 8 feet high, and are very floriferous, blooming from early in July until late in autumn. We offer three distinct colors—red, pink and white—strong roots. 45c each; 3 for 90c; \$3.00 per dozen.

LIBERTY IRIS (Iris Germanica)

(Flag Iris) The "Fleur-de-Lis" of France
See fourth page of cover for list of Liberty and Japanese Irises.

LIATRIS (Blazing Star, or Gay Feather)

Showy native plants, producing their large spikes of flowers from July to September.
Pycnostacha. Spikes of light, rosy purple flowers; five feet. 45c each; 3 for 90c; \$3.00 per dozen.

LINUM (Flax)

Perenne. A fine plant for the border or rockery; grows 2 feet high, with light, graceful foliage and large blue flowers all summer. 40c each; 3 for 75c; \$2.50 per dozen.

LUPINUS (Lupine)

They grow about three feet high, producing large spikes of flowers, latter part of May and early June. New sweet scented, mixed colors. 40c each; 3 for 75c; \$2.50 per dozen.

LYCHNIS

Chalcedonica. A desirable plant, growing two to three feet high; flowers brilliant orange scarlet. 35c each; 3 for 60c; \$2.00 per dozen.

LYTHRUM

Roseum Superbum. (Rose Loose Strife.) A strong growing plant three to four feet high, producing large spikes of rose colored flowers from July to September. 40c each; 3 for 75c; \$2.50 per dozen.

MERTENSIA (Blue Bells)

Virginica. An early spring-flowering plant, growing about one to one and one-half feet high, with drooping panicles of handsome, light blue flowers, fading to clear pink; blooming in May and June. 40c each; 3 for 75c; \$2.50 per dozen.

MONARDA (Bergamot)

Didyma. Cambridge Scarlet. (Oswego Tea.) Showy plants, growing from two to three feet high and producing their bright scarlet flowers during July and August. 40c each; 3 for 75c; \$2.50 per dozen.

We do not guarantee or replace Plants, Shrubs or Trees at prices quoted.

HARDY HERBACEOUS PERENNIAL PLANTS—Continued

MYOSOTIS

Palustris Semperflorens. Large, rich blue flowers with yellow eye; a charming plant for damp places and a profuse bloomer. 40c each; 3 for 75c; \$2.50 per dozen.

DOUBLE HERBACEOUS PEONIES

The following varieties represent all the colors necessary to produce the required effect, as some will be in bloom from Memorial Day until the last of the season.

We offer strong divisions from three to five eyes at the uniform price of 50c each; \$5.00 per dozen.

Duchess de Nemours. Guard petals white, center lemon yellow; cup-shaped. Early midseason.

Eduilis Superba. Bright, mauve pink color mixed with lilac; fragrant. The famous Memorial Day Peony.

Festiva Maxima. White, with carmine tipped flakes to a few center petals. Early and most popular white.

Marie Lemoine. Large, sulphur white, shaded with pink; magnificent.

Monsieur Jules Elie. Flowers an ideal glossy lilac rose with silvery reflex, early midseason.

Queen Victoria. Large, full compact bloom, opening flesh, changing to white, center petals tipped with carmine.

Rubra Superba. Large, rich brilliant deep crimson flowers. The best late variety and should be in every collection.

PEONY (Officialis Rubra)

This is the oldest and still one of the most popular sorts. It is the earliest to bloom. Producing freely, brilliant glowing deep carmine double flowers. 50c each; \$5.00 per dozen.

HARDY PHLOX (Phlox Decussata)

We offer the following collection of extra choice varieties. All strong, 2-year-old plants. 40c each; 3 of a kind for 75c; \$2.50 per dozen.

Antonin Mercie. Flowers a delicate lilac blue.

B. Conte. Rich, satiny, amaranth flowers.

Beacon. Brilliant cherry red.

Champs Elysee. Fine rich crimson.

Europa. White, with large crimson carmine eye.

Jules Sandeau. Large, fine, pure pink.

Lord Raleigh. Dark mauve with purplish tint.

Miss Lingard. (Suffruticosa.) White flowers with faint pink shading.

Mrs. Jenkins. White, large panicles, free bloomer.

Rheinlander. Rose pink, much like Paul Neyron rose.

Thor. Deep salmon pink, overlaid with a scarlet glow.

Von Jassburg. Tall grower with white flowers.

Any of the above varieties. 40c each; 3 of a kind for 75c; \$2.50 per dozen.

If wanted by mail, add 5c each; 15c per dozen; for postage.

PHYSALIS (Chinese Lantern Plant)

Franchetii. An ornamental variety of the Winter Cherry, forming dense bushes about 2 feet high, producing freely its bright orange-scarlet lantern-like fruit. 35c each; 3 for 60c; \$2.00 per dozen.

PHYSOSTEGIA (False Dragonhead)

Virginica. Forms large clumps 3 to 4 feet high, bearing long spikes of delicate pink flowers, tubular in form. July and August. 40c each; 3 for 75c; \$2.50 per dozen.

PLATYCODON

(Balloon Flower or Japanese Bell Flower)

Grandiflorum. Deep blue, cupped, star-shaped flowers, one and one-half feet. 40c each; 3 for 75c; \$2.50 per dozen.

POPPIES, ORIENTAL (Papaver Orientale)

The proper planting season for Oriental Poppies is from the latter part of August till the end of October. Roots planted in spring seldom live and are usually disappointing to customers.

Orientele. (Oriental Poppy.) Tremendous scarlet, cup-shaped blooms of brightest crimson-scarlet, with large purplish black blotches at base of petals. 50c each; 3 for \$1.05; \$3.50 per dozen.

Orientele, Beauty of Livermore. Crimson, with black blotch. 55c each; 3 for \$1.20; \$3.75 per dozen.

Orientele, Mrs. Perry. Orange-apricot; very fine. 50c each; 3 for \$1.05; \$3.50 per dozen.

Orientele, Perry's White. The flowers are a fine satiny white with a crimson-maroon blotch at the base of each petal. 60c each; 3 for \$1.35; \$4.50 per dozen.

PYRETHRUM

Persian or Painted Daisy. The plants we offer embrace all the colors from deep red through the various shades of rose to pure white. These can be supplied in mixed colors only. 40c each; 3 for 75c; \$2.50 per dozen.

Uliginosum. (Giant Daisy.) Grows four to five feet high, and is covered with large, white, daisy-like flowers three inches in diameter from July to September. 40c each; 3 for 75c; \$2.50 per dozen.

RUDBECKIA (Cone Flower)

Golden Glow. Double canary yellow flowers; six feet; August. 35c each; 3 for 60c; \$2.00 per dozen.

Newmanni. Single dark orange, with deep purple cone center; three feet high; flowers from July to September. 40c each; 3 for 75c; \$2.50 per dozen.

Purpurea. (Giant Purple Cone Flower.) Flowers from July to September; two and one-half feet high. 45c each; 3 for 90c; \$3.00 per dozen.

SALVIA

Azurea. Grows two to three feet high and produces pretty skyblue flowers in great profusion during August and September. 40c each; 3 for 75c; \$2.50 per dozen.

SCABIOSA

Japonica. Bears lavender-blue flowers on long stems from July to Sept. 45c each; 3 for 90c; \$3.00 per dozen.

SEDUM (Stone Crop)

Spectabilis. Erect growing; height 18 inches with broad, light-green foliage and immense heads of handsome, showy, rose-colored flowers. 45c each; 3 for 90c; \$3.00 per dozen.

Spectabilis Brilliant. Similar to the above with bright, amaranth-red flowers. 45c each; 3 for 90c; \$3.00 per dozen.

SHASTA DAISY

Large, snowy-white flowers, in bloom continuously throughout the summer and fall. Height 2½ feet.

Alaska. A decided improvement on the original, very free-flowering, with blooms 4½ to 5 inches across of pure, glistening white. 40c each; 3 for 75c; \$2.50 per dozen.

Mrs. C. Lothian Bell. This magnificent white Marguerite is undoubtedly the largest flowered variety of this class. Flowers frequently measure six inches across with very broad petals of great substance. 2½ to 3 feet. 45c each; 3 for 90c; \$3.00 per dozen.

STATICE (Great Sea Lavender)

Latifolia. Immense heads, 2 to 3 feet across; small, blue flowers from June to September, which last for months if cut and dried. 45c each; 3 for 90c; \$3.00 per dozen.

STOKESIA (Cornflower or Stokes' Aster)

Cyanea. Produces showy, aster-like, deep blue flowers which measure from 4 to 5 inches across. 18 to 24 inches high, blooming freely from July until frost. 45c each; 3 for 90c; \$3.00 per dozen.

SWEET WILLIAM (Dianthus Barbatus)

Well known hardy plant. We offer a superb strain of mixed single and double-flowering sorts. 35c each; 3 for 60c; \$2.00 per dozen.

Newport Pink. Salmon or watermelon-pink flowers. 40c each; 3 for 75c; \$2.50 per dozen.

VERONICA (Speedwell)

Longifolia Subsessilis. A pretty species with blue flowers, produced on spikes a foot long, continuing in bloom the entire summer and fall. 45c each; 3 for 90c; \$3.00 per doz.

Spicata. An elegant border plant, growing about 1½ feet high, producing long spikes of bright blue flowers. 40c each; 3 for 75c; \$2.50 per dozen.

VINCA MINOR (Periwinkle or Trailing Myrtle)

Dwarf evergreen trailing plant, is useful for carpeting the ground where it is too shady for other plants to thrive. 40c each; 3 for 75c; \$2.50 per dozen.

YUCCA FILAMENTOSA (Adams' Needle)

A hardy ornamental foliage and evergreen plant with long, narrow leaves that are bright green the whole year round. The flowers are white, produced on long spikes. 45c each; 3 for 90c; \$3.00 per dozen.

ORNAMENTAL GRASSES

Eulalia Gracillima. (Japan Rush.) The most beautiful of all the Eulalias, with narrow, graceful foliage, entirely green without variegation, except that the midrib is of a silver sheen.

Eulalia Japonica Variegata. Leaves striped white and green longitudinally.

Eulalia Zebrina. (Zebra Grass.) A peculiar variegated grass, growing six feet high. The variegation is unlike that of any other plant, being across the leaf in regular bands, dark green and light. 40c each; 3 of a kind for 75c; \$2.50 per dozen.

When ordering Perennial Plants sent via Parcel Post, add 5c each or 15c per dozen, for postage within third zone.

ROSES

HARDY HYBRID PERPETUAL

Strong Two-Year-Old Plants. Ready for Delivery During October and November. \$1.00 each; \$10.00 per Dozen. Sent by express at customer's expense. If wanted by mail, add 5c each, 30c per dozen, for postage.

Clio. Large, globular flowers of flesh color.
Frau Karl Druschki. Flowers of the purest white.
General Jacqueminot. The old favorite; velvety-crimson.
John Hopper. Brilliant crimson, large fragrant flowers.
Jubilee. Flowers glowing, velvety crimson; fragrant.
Mad. Gabriel Luizet. Large, fragrant, soft pink flowers.
Magna Charta. Deep pink, large and sweet scented.
Marshall P. Wilder. Large flowers of carmine-red.
Mrs. John Laing. Large, beautiful pink blooms.
Paul Neyron. An immense rose of a deep rose color.
Prince C. De Rohan. (The Black Rose.) Deep velvety-crimson.
Ulrich Brunner. Cherry-crimson, large fine form.

HARDY CLIMBING ROSES

We Offer the Best and Most Distinct Varieties. Strong Two-Year-Old Plants Ready for Delivery During October and November.

Price—Extra Strong Plants, 75c each; \$7.50 per dozen. Sent by express at customer's expense. If wanted by mail, add 5c each; 30c per dozen for postage.
American Pillar. Color is a delightful shade of pink.
Climbing American Beauty. Same as its namesake in size, color and fragrance.
Crimson Rambler. Bright crimson flowers.
Dorothy Perkins. Beautiful shell-pink flowers.
Dr. W. Van Fleet. Rich, flesh-pink flowers.
Excelsa. Crimson-scarlet; double flowers in clusters.
Gardenia. (Wichuriana.) Flowers cream color.
Pauls Scarlet Climber. Flowers scarlet, shaded crimson.
Silver Moon. Large, pure white flowers.
Tausendschon. Beautiful soft pink flowers.

Hardy Climbing Plants

AMPELOPSIS VEITCHII. (Japan Creeper or Boston Ivy.) Best climbing plant for covering brick or stone walls. 50c each; \$5.00 per dozen; by mail, 55c each.
AMPELOPSIS QUINQUEFOLIA. (Virginia Creeper.) For covering walls, verandas and trunks of trees. 50c each; \$5.00 per dozen; by mail, 55c each.
BIGNONIA RADICANS. (Trumpet Vine.) Flowers trumpet-shaped, bright scarlet. 45c each; \$4.50 per dozen; by mail, 50c each.
CLEMATIS. *Paniculata.* (Japanese Clematis.) Pure white, very fragrant, borne in large clusters; small flowering. 60c each; \$6.00 per dozen; by mail, 65c each.
HONEYSUCKLE. *Monthly Fragrant or Dutch.* Blooms all summer. 50c each; \$5.00 per dozen.
HONEYSUCKLE. *Halleana.* Nearly evergreen; flowers pure white. 50c each; \$5.00 per dozen.
IVY. *English.* Beautiful, evergreen vine. 75c each; \$7.50 per dozen; by mail, 80c each.
KUDZU VINE. (Or Jack-and-the-Bean-Stalk.) A rapid growing vine. 30c each; \$3.00 per dozen; by mail, 35c each.
WISTARIA, CHINESE. Delicate, violet-blue blossoms. 75c each; \$7.50 per dozen; by mail, 80c each.
WISTARIA, CHINESE, WHITE. Pure white flowers. 75c each; \$7.50 per dozen; by mail, 80c each.

HEDGE PLANTS

CALIFORNIA PRIVET. (*Ligustrum Ovalifolium.*) The most advantageous manner of planting is in double rows, the two rows being about 8 inches apart. The plants should be set 12 inches apart in the row, alternating the plants. In order to secure a dense hedge from the base up, the plants should be severely pruned the first two seasons.
 18 to 24 inches. \$1.00 per dozen; \$4.50 per 100.
 24 to 30 inches. \$1.20 per dozen; \$6.50 per 100.
BERBERIS THUNBERGII. (Japan Barberry.) Where a low, dwarf deciduous hedge is wanted, nothing equals this beautiful Barberry. Requires but little pruning to keep it in shape. Plant 12 to 15 inches apart. 12 to 18 inches. \$2.50 per dozen. \$20.00 per 100.

We do not guarantee or replace Plants, Shrubs or Trees at prices quoted.

TREES

SHADE AND ORNAMENTAL

FOR LAWN, STREET AND FOREST PLANTING

ASH. *American white.* A handsome, hardy, broad-headed tree. 6 to 8 feet. \$1.00 each; \$10.00 per dozen.
CATALPA SPECIOSA. A handsome, rapid growing tree. 6 to 8 feet. \$1.50 each; \$15.00 per dozen.
CATALPA BUNGEI. (Umbrella Catalpa.) 6 to 7 feet. 1 year heads, \$2.00 each; 2 year heads, \$3.00 each.
ELM. *American.* A hardy, rapid grower; resists drought and is long lived. 6 to 8 feet. \$1.50 each; \$15.00 per dozen.
LINDEN. *European.* This is probably the largest leaved Linden. 6 to 8 feet. \$3.00 each; \$30.00 per dozen.
MAPLE. *Norway.* A large, handsome tree with a compact-rounded head of spreading branches. 6 to 8 feet. \$3.75 each; \$37.50 per dozen.
MAPLE. *Rock or Sugar.* An excellent shade tree of upright, dense growth. Grows to a large size and is long lived. 8 to 10 feet. \$3.00 each; \$30.00 per dozen.
MAPLE. *Silver or Soft.* Has wide, slender, spreading branches and thrives almost anywhere. 8 to 10 feet. \$2.25 each; \$22.50 per dozen. 10 to 12 feet, \$3.00 each; \$30.00 per dozen.
MULBERRY, TEAS' WEEPING. The most graceful hardy weeping tree in existence. Forms a perfect-shaped head and the slender branches grow downward parallel with the stem, forming an umbrella-like shape. Admirably adapted for ornamenting small or large grounds, or for cemetery planting. 2 year heads, \$4.00 each.
OAK. *Red.* A tree of rapid growth, growing into a large, majestic tree, the foliage turning dark red in fall. 4 to 6 feet. \$2.25 each; \$22.50 per dozen.
OAK. *Scarlet.* A noble tree with spreading branches; leaves turn scarlet in fall. 6 to 8 feet. \$3.00 each; \$30.00 per dozen.
OAK. *Pin.* Tree is fibrous rooted, transplants well and grows rapidly. Foliage turns bright red in fall. 6 to 8 feet, \$2.25 each; \$22.50 per dozen.
POPLAR. *Carolina.* One of the surest and most rapid growing trees. 8 to 10 feet. \$1.50 each; \$15.00 per dozen.
POPLAR. *Lombardy.* With age this tree becomes picturesque. 6 to 8 feet. 75c each; \$7.50 per dozen. 8 to 10 feet. \$1.25 each; \$12.50 per dozen.
SYCAMORE. *Plantanus Orientalis.* (Oriental Plane.) Very hardy and does well in moist places. Thrives in smoky cities, making it a good tree for city planting. 6 to 8 feet. \$1.80 each; \$18.00 per dozen.
WILLOW. *Wisconsin.* A large tree with drooping branches. Leaves are bright green. Excellent for wet locations, but a credit to any lawn. 6 to 8 feet. \$1.75 each; \$17.50 per dozen.

EVERGREEN TREES

ARBORVITAE AMERICAN

(*Thuja Occidentalis*)

They are very quick growers and may be trimmed to any desired height. Fine for hedges.

2 to 3 feet. \$2.50 each; \$25.00 per dozen.
 3 to 4 feet. \$4.00 each; \$40.00 per dozen.

ARBORVITAE PYRAMIDALIS

(*Thuja Occidentalis Pyramidalis*)

Suitable for tubs and forms a tall, slender column of densely branched, dark green foliage. A very graceful tree, having a number of uses.

2 to 3 feet. \$4.25 each; \$42.50 per dozen.
 3 to 4 feet. \$5.25 each; \$52.50 per dozen.

IRISH JUNIPER

(*Juniperus Hibernica*)

A narrow, columnar form, with upright branches, deep green, tips of branchlets erect.

2 to 3 feet. \$4.00 each; \$40.00 per dozen.

NORWAY SPRUCE

(*Picea Excelsa*)

This tree is extensively planted in many of the States. It is of rapid growth, with graceful habits and dark green foliage. It is one of the best conifers to plant for shelter and windbreaks.

1½ to 2 feet. \$2.00 each; \$20.00 per dozen.
 2 to 3 feet. \$3.00 each; \$30.00 per dozen.
 3 to 4 feet. \$4.50 each; \$45.00 per dozen.

ORNAMENTAL FLOWERING SHRUBS

Shrubs are as much a part of the garden as the lawn or flower borders, and a well arranged planting presents an attractive appearance throughout the entire year.

Our Shrubs are transplanted every two or three years and are furnished with plenty of fibrous roots and should not be compared to stock that is never moved from the cutting beds until sold.

We do not guarantee or replace plants, shrubs or trees at prices quoted.

ALTHEAS. (Rose of Sharon.) Valuable on account of their late season of blooming, which is from August to October. Are also extensively used as hedge plants.

Boule-De-Feu. Double red. **Jeanne D'Arc.** Double white. **Lady Stanley.** Double bluish white, crimson center. **Double Rose, White and Purple.** All the above—2 to 3 feet. 60c each; \$6.00 per dozen.

BERBERIS THUNBERGII. (Japanese Barberry.) One of the most beautiful shrubs either for hedging or general purposes.

12 to 18 inches, 30c each; \$3.00 per dozen.
18 to 24 inches, 40c each; \$4.00 per dozen.
24 to 30 inches, 60c each; \$6.00 per dozen.

NEW RED LEAVED JAPANESE BARBERRY.

One year plants 75c each; \$7.50 per dozen.
Two year plants \$1.00 each; \$10.00 per dozen.
Three year plants \$2.00 each; \$20.00 per dozen.

BUDDLEIA. (Butterfly Shrub or Summer Lilac.) Flowers are the shape and color of lilacs. Flowers all season. 50c each; \$5.00 per dozen.

CALICARPA. Purpurea. Clusters of bright glossy, violet-purple berries are borne in September, remaining on the plant until mid-winter. 75c each; \$7.50 per dozen.

CALYCANTHUS FLORIDUS. (Sweet-Scented Shrub.) Flowers fragrant, double and of a chocolate color. Blooms in April. 1½ to 2 feet. 75c each; \$7.50 per dozen.

CERCIS CANADENSIS. (Judas Tree or Red Bud.) 2 to 3 feet. 75c each; \$7.50 per dozen.

CLETHRA ALNIFOLIA. (Sweet Pepper Bush.) Upright spikes of creamy white, fragrant flowers in August. 1½ to 2 feet. 75c each; \$7.50 per dozen.

CORCHORUS. (Kerria.) Globe Flower or Japanese Rose. Japonica. Flowers bright yellow, large and showy. 1½ to 2 feet. 75c each; \$7.50 per dozen.

CORNUS FLORIDA. (White Flowering Dogwood.) Flowers white and very showy. 2 to 3 feet. \$1.00 each; \$10.00 per dozen.

CORNUS FLORIDA RUBRA. (Red Flowering Dogwood.) The flowers are rich, rosy-red. 3 to 4 feet. \$5.00 each; \$50.00 per dozen.

CRAB. (Bechtel's Double Flowering.) Trees are covered in early spring with large beautiful, double, fragrant flowers, resembling small roses of a delicate pink. 3 to 4 feet. \$1.50 each; \$15.00 per dozen.

DEUTZIA GRACILIS. A dwarf bush, covered with spikes of pure white flowers in early summer. 12 to 18 inches. 75c each; \$7.50 per dozen.

DEUTZIA PRIDE OF ROCHESTER. Large double white flowers, slightly tinted with rose. 2 to 3 feet. 50c each; \$5.00 per dozen.

ELDER, GOLDEN. (Sambucus.) Golden yellow foliage. 3 to 4 feet. 75c each; \$7.50 per dozen.

EXOCHORDA GRANDIFLORA. (Pearl Bush.) The early buds look like pearls, opening up to long gleaming sprays of pure white. \$1.25 each; \$12.50 per dozen.

FORSYTHIA VIRIDISSIMA. (Golden Bell.) Erect growth and spreading branches; flowers bright yellow. 2 to 3 feet. 50c each; \$5.00 per dozen.

HYDRANGEA ARBORESCENS STERILIS. (Snow-ball Hydrangea.) Snowy white bloom; will flower for fully three months. 18 to 24 inches. 60c each; \$6.00 per dozen.

HYDRANGEA PANICULATA GRANDIFLORA. The flowers which are borne in dense pyramidal panicles are white when they first open but gradually change to rose. 18 to 24 inches, 60c each; \$6.00 per dozen.
2 to 3 feet, 75c each; \$7.50 per dozen.

HYDRANGEA PANICULATA GRANDIFLORA. (Standard or Tree-Shaped Plants. These are four and five years old, with about three feet of straight stem and nicely shaped heads. \$2.25 each; \$22.50 per dozen.

LILACS. Purple. (Syringa Vulgaris.) Purple flowers. White. (Syringa Vulgaris Alba.) White flowers. 3 to 4 feet. 75c each; \$7.50 per dozen.

Prices of any of the following named Lilacs, fine plants. 2 to 3 feet. \$1.00 each; \$10.00 per dozen.

Charles X. Reddish purple flowers.

Michael Buchner. Double pale-lilac flowers.

Madame Lemoine. Double white flowers.

LONICERA. (Bush or Upright Honeysuckle.) **Morrowi.** White flowers during May, followed by red fruit. **Tartarica.** (Tartarian Honeysuckle.) Flowers red and white. Fruit red or orange. 2 to 3 feet. 60c each; \$6.00 per dozen.

PHILADELPHUS or SYRINGA. Grandiflorus. (Large flowered Mock-Orange.) Flowers are pure white and very large. 60c each; \$6.00 per dozen.

PHILADELPHUS VIRGINAL. Produces an immense mass of beautiful white flowers and blooms all summer. 1½ to 2 feet. 75c each; \$7.50 per dozen.

RIBES AUREUM. (Golden Currant.) An ornamental shrub, remarkable for the spicy fragrance of its yellow blossoms in early spring. 2 to 3 feet. 75c each; \$7.50 per dozen.

SPIREAS. A large group of showy, free-flowering, hardy shrubs.

Anthony Waterer. Rose red flowers in large, round clusters; beginning to bloom in summer, continuing until fall. 12 to 18 inches. 50c each; \$5.00 per dozen.

Sorbifolia. (Ash Leaf Spirea.) White flowers, with delicate green foliage, 75c each; \$7.50 per dozen.

Thunbergii. Of dwarf, graceful form; flowers small, white, early in spring. 75c each; \$7.50 per dozen.

Van Houttei. (Improved Bridal Wreath.) Clusters of white florets are set close along the drooping stems.

Two to three feet, 35c each; \$3.50 per dozen.
Three to four feet, 45c each; \$4.50 per dozen.

SYMPHORICARPUS. Racemosus. (Snowberry.) Berries white, produced in showy, profuse clusters. 2 to 3 feet. 60c each; \$6.00 per dozen.

SYMPHORICARPUS. Vulgaris. (Coral-Berry or Indian Currant.) Red or purplish berries. Does well in shade. 2 to 3 feet. 60c each; \$6.00 per dozen.

TAMARIX. Africana. (Tamarisk.) Feathery foliage and small pink flowers in May. 60c each; \$6.00 per dozen.

TAMARIX. Hispida Aestivalis. Upright branches, flowers pink, July and August. 75c each; \$7.50 per dozen.

VIBURNUMS. (Snowballs and High Bush Cranberry.) The Viburnums are one of the most useful shrubs, being very hardy and of good habit. They all have white flowers mostly on flat heads and with a few exceptions are noted for their handsome clusters of berries.

Lantana. (Wayfaring Tree.) White flowers in May and June are followed by red fruits, changing to black. 12 to 18 inches. 45c each; \$4.50 per dozen.

Opulus. (High Bush Cranberry.) The white flowers in June are followed in autumn by bright scarlet berries. 18 to 24 inches. 75c each; \$7.50 per dozen.

Opulus Sterilis. (Guelder Rose or Snowball.) Clusters of single white flowers, which produce brilliant red berries. 2 to 3 feet. \$1.00 each; \$10.00 per dozen.

Plicatum. (Japan Snowball.) The perfect balls of pure white flowers are borne in great profusion in May. 2 to 3 feet. \$1.25 each; \$12.50 per dozen.

VITEX AGNUS-CASTUS. (Chaste Tree.) Flowers lilac, borne in dense, drooping clusters. July and August. 2 to 3 feet. 90c each; \$9.00 per dozen.

WEIGELIAS. (Diervilla.) These shrubs bloom after the lilacs in June and July. Their large flowers are of wide trumpet-shape, colors from white to red, and borne in clusters thickly along the branches.

Candida. White flowering Weigelia, flowering throughout the summer. 2 to 3 feet. 75c each; \$7.50 per dozen.

Eva Rathke. The finest Weigelia in cultivation. Flowers continuously throughout the summer and autumn; of an entirely distinct color, being a rich, ruby carmine. 2 to 3 feet. 75c each; \$7.50 per dozen.

Rosea. A beautiful shrub, with rose-colored flowers in May and June. 2 to 3 feet. 60c each; \$6.00 per dozen.

Rosea Nana Variegata. A neat dwarf shrub, valuable for the clearly defined variegation of green, yellow and pink in its leaves; flowers delicate rose and pink; one of the finest variegated-leaved shrubs. 2 to 3 feet. 90c each; \$9.00 per dozen.

We do not guarantee or replace Plants, Shrubs or Trees at prices quoted.

FRUIT TREES, SMALL FRUITS, GRAPE VINES, ETC.

Select thrifty young fruit trees in preference to old or very large ones, as the roots are more tender and fibrous. They bear transplanting better and are more apt to live; they can also be more easily trimmed and shaped to any desired form.
SENT BY EXPRESS AT EXPENSE OF PURCHASER.

APPLES—STANDARD

5 to 7 feet high, 90c each; \$9.00 per dozen.

SUMMER VARIETIES

EARLY HARVEST. Pale yellow, fine flavor; August.
RED ASTRACHAN. Large, crimson, juicy, with rich sub-acid flavor; hardy; July.
YELLOW TRANSPARENT. Pale yellow; good quality.

AUTUMN VARIETIES

DELICIOUS. Large, dark red, juicy, aromatic.
DUCHESSE OF OLDENBURG OR DUCHESSE. Large, rounded, yellow, striped red, tender, juicy.
FALL RAMBO. Yellow, streaked with red.
MAIDEN'S BLUSH. Large, beautiful bluish cheek.

WINTER VARIETIES

BALDWIN. Large, dark red; productive.
BANANA. Large, golden yellow, shaded crimson.
ENSEE. Bright red in color and a splendid keeper.
GRIMES GOLDEN. Medium to large, skin golden yellow, flesh, crisp, tender, juicy; long keeper.
STAYMAN'S WINESAP. Fruit medium size, mostly covered with red on a yellow ground; flesh fine, crisp, juicy.

ONE YEAR OLD APPLE TREES

Of the Above Varieties

3 to 4 feet high, 35c each; \$3.50 per dozen; 25 for \$7.00; 50 for \$13.00; 100 for \$25.00.

CRAB APPLES

5 to 7 feet high. 90c each; \$9.00 per dozen.

HYSLOP. Deep crimson; very popular on account of its large size, beauty and hardness.
TRANSCENDENT. Skin yellow, striped with red.

CHERRIES

HEART AND BIGARREAU (Sweet)

4 to 6 feet, first-class. \$1.25 each; \$12.50 per dozen.

BLACK TARTARIAN. Very large, purplish-black, juicy, rich, excellent, productive; last of June.
GOVERNOR WOOD. Large, light red, juicy, rich, delicious; tree healthy and productive; June.

DUKE AND MORELLO (Sour)

4 to 6 feet, first-class. \$1.25 each; \$12.50 per dozen.

DYEHOUSE. A very early and sure bearer; ripens a week before Early Richmond; fine quality; June.
EARLY RICHMOND. Medium, dark red, fine quality.
ENGLISH MORELLO. Dark red, rich, acid, juicy, and good. Late July.

PEACHES

4 to 5 feet. 60c each; \$6.00 per dozen.

CHAMPION. Creamy white with red cheeks, freestone, excellent quality; early in August.
CRAWFORD'S EARLY. Large, yellow, of good quality, freestone; early in September.
CRAWFORD'S LATE. Large, yellow with red cheeks, freestone; last of September.
ELBERTA. Large, yellow with red cheek, flesh yellow, firm, juicy, of high quality; very prolific; September.
J. H. HALE. Deep golden yellow overlaid with bright carmine. Large size and productive.

PEARS—STANDARD

5 to 7 feet, first-class. \$1.25 each; \$12.50 per dozen.

BARTLETT. Large, clear yellow, juicy. August.
FLEMISH BEAUTY. Fruit is large, skin pale yellow, flavor sweet and melting; September and October.
KIEFER'S HYBRID. Large, rich color and good quality.
SECKEL. Small, yellowish brown; one of the best.

PLUMS

STANDARD ON PLUM STOCKS

5 to 7 feet. \$1.00 each; \$10.00 per dozen.

ABUNDANCE. Large, yellow with heavy bloom, good quality; very prolific.
BURBANK. The largest and best variety; color red; excellent quality; hardy and vigorous grower.
SHIPPER'S PRIDE. Large, purple, fine, juicy and sweet.

SUITABLE DISTANCES FOR PLANTING FRUIT TREES, SMALL FRUITS AND GRAPE VINES

Apples, 30 to 40 feet.—Pears, 18 to 20 feet.—Peaches, 16 to 18 feet.—Cherries, 18 to 20 feet.—Plums, 16 to 20 feet.—Quinces, 10 to 12 feet.—Blackberries, 5 to 7 feet.—Currants, 3 to 4 feet.—Gooseberries, 3 to 4 feet.—Raspberries, red, 3 to 4 feet.—Grapes, 8 to 10 feet.

We do not guarantee or replace Plants, Shrubs or Trees at prices quoted.

QUINCES

3 to 5 feet high. \$1.25 each; \$12.50 per dozen.
APPLE OR ORANGE. Large, bright golden yellow, fine quality; flesh firm, cooks tender; October.

BLACKBERRIES

75c per dozen; \$5.00 per 100.

The Blackberry is one of the most profitable fruits to grow when properly managed, as it thrives well in almost any soil, but reaches perfection in a strong loam tending towards clay.

Ancient Briton. Large fruit, stems loaded with good sized berries of fine quality; vigorous grower, one of the best.

Eldorado. Large fruit, borne in large clusters and ripen well together, fine quality; good keeper.

CURRANTS

Two-Year-Old Plants

A cool, moist soil is best adapted to the growth of Currants. Strong, moist loams with a considerable mixture of clay, are good.

Cherry. Large, bright red berries, with a thin skin and fine flavor. 30c each; \$3.00 per dozen.

Perfection. A new red variety which promises to eclipse all other sorts, combining size, color, high quality and productiveness. 40c each; \$4.00 per dozen.

White Grape. Best white variety. 30c each; \$3.00 per dozen.

GOOSEBERRIES

Two-Year-Old Plants

The best results are obtained by planting in moist, but not soggy, clay loam.

Downing. Large, pale green, and of splendid quality for both cooking and table use. 30c each; \$3.00 per dozen.

Houghton's. Small to medium; roundish, oval, pale red, sweet, tender. 25c each; \$2.50 per dozen.

Industry. Berries of largest size, excellent flavor, pleasant and rich, dark red color when fully ripe; strong upright grower; an immense cropper. 25c each; \$2.50 per dozen.

Smith's Improved. Large, pale, greenish yellow, skin thin, of excellent quality. 25c each; \$2.50 per dozen.

GRAPE VINES

ALL TWO-YEAR-OLD SELECTED STOCK

Grape vines will grow almost anywhere, but they should be carefully cultivated and pruned.

BLACK OR PURPLE GRAPES

***Concord.** Large, black grape, hardy and productive; juicy and sweet. 15c each; \$1.50 per dozen.

Ives' Seedling. Dark purple, sweet. 20c each; \$2.00 per dozen.

Moore's Early. Ripens ten days earlier than Concord; bunch and berry round and large. 20c each; \$2.00 per dozen.

RED GRAPES

***Catawba.** Berries large, round; when ripe a dark copper color, sweet, rich. 30c each; \$3.00 per dozen.

Delaware. Small, light red, thin skin; very juicy, sweet, sprightly. 25c each; \$2.50 per dozen.

WHITE OR YELLOW GRAPES

***Niagara.** Bunch and berries large, light greenish white, slightly ambered. 20c each; \$2.00 per dozen.

Pocklington. Bunch and berry very large; attractive, golden yellow color. 20c each; \$2.00 per dozen.

Varieties marked with a * are best for arbors.

RASPBERRIES

They will do well in any good soil, but thrive best in deep, moist (not over wet) soil. The lighter loams are preferable for the red varieties, while the heavier loams suit the black varieties best.

The following varieties are all 75c per dozen, \$4.50 per 100.

Cardinal. Produces a fine quality of dark red or almost purple berries through a long season.

Cuthbert. Large, firm, deep rich crimson, of excellent quality, tall, strong and vigorous.

St. Regis Everbearing. The berries are a bright crimson, of large size and surpassing quality—rich, sugary with full raspberry flavor.

McCULLOUGH'S HIGH GRADE FERTILIZERS

All Fertilizers Delivered Free on Board Cincinnati. All Prices Subject to Change Without Notice.

LAWN AND GARDEN GROWER

This is a properly balanced concentrated plant food mixture blended from those chemical fertilizer ingredients best suited for the growing of grass and gardens. It is free from objectionable odors and weed seeds, is easily applied and gives quick results. Its plant food is largely soluble in water, yet will not readily leach from the soil in excessive rains. It contains more pounds of highest grade plant food than is generally used in lawn and garden fertilizer, having at least 16 times as much plant food as ordinary farm manure. It contains 6% Ammonia, 8% available Phosphoric Acid and 6% Potash, which analysis is of the proper ratio for such use. The continued systematic use of this fertilizer will materially aid in eradicating weeds from your lawn.

Use 4 to 6 lbs. per 100 square feet.
5 lbs., 50c; 25 lbs., \$1.75; 50 lbs., \$2.75; 100 lbs., \$5.00.
Send for descriptive circular.

ADCO ARTIFICIAL STABLE MANURE, in 25-lb. bags (enough for 12 wheelbarrow loads of garden waste making one-half ton of manure) \$2.00 per bag. In special 150 lb. bags (enough for a heap 10 ft. x 10 ft. x 6 ft., making about three tons of manure), \$10.50 per bag.

PURE BONE MEAL. Should be applied at the rate of 500 to 600 lbs. per acre. Analysis: Ammonia 2%; total phosph. acid, 27%.
1 lb., 10c; 5 lbs., 40c; 10 lbs., 70c; 25 lbs., \$1.35; 50 lbs., \$2.50; per bag of 125 lbs., \$4.50.

SHEEP MANURE—Pulverized. Use at the rate of from 500 to 600 pounds per acre.
5 lbs., 30c; 10 lbs., 50c; 50 lbs., \$1.65; 100 lbs., \$2.75.

CATTLE MANURE—Shredded. Dried and sterilized by a high temperature direct heat process.
100 lb. bags only. Per bag of 100 lbs., \$2.75.

CROWN PREPARED HUMUS. The prepared Humus is dry, thoroughly pulverized, odorless and clean to handle and apply and absolutely free from weed growth.
5 lbs., 25c; 10 lbs., 40c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$1.75; 500 lbs., \$8.00; 1,000 lbs., \$15.00.

PLANT STIMULANT TABLET. Complete directions with every package.
Price, postpaid: trial size (10 tablets) 15c; 30 tablets, 25c; 100 tablets, 75c; 1,000 tablets, \$3.50.

LAWN LIME. Should be applied at the rate of 1,000 to 2,000 lbs. per acre for sandy soils and 2,000 to 3,000 lbs. per acre for clay soils, a few weeks before applying Commercial Fertilizers.
Per bag of 80 lbs., \$1.00; 5 bags, \$4.50; 10 bags, \$8.00.

REGULAR BONE MIXTURE (Half and Half). Especially valuable for Field Crops, Potatoes and Grain. Should be applied at the rate of 400 to 500 lbs. per acre. Analysis: Ammonia, 2%; total phosph. acid, 16%; potash K₂O, 2%.
5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.10; 50 lbs., \$2.00; per bag of 125 lbs., \$3.25.

DRIED BLOOD MEAL. A splendid fertilizer for Roses, Carnations, Chrysanthemums, etc., as well as for pot plants. Can be mixed with the soil or applied in liquid form.
1 lb., 15c; 25 lbs., \$2.00; 50 lbs., \$3.75; 100 lbs., \$7.00.

STADLER'S "SUPERIOR" PLANT FOOD. For Potted House Plants, Garden, Shrubs, Lawn and Trees, 3 oz. can (making 12½ Gallons) 25c each; 7 oz. can (making 27½ gallons) 50c each; 16 oz. can (making 65 Gallons) \$1.00 each; a \$1.00 can contains 600 treatments. Prices Postpaid.

NITRATE OF SODA. Carries approximately 20% of ammonia and comes in crystals which vary in size.
1 lb., 15c; 2 lbs., 25c; 10 lbs., 85c; 25 lbs., \$1.50; 50 lbs., \$2.75; 100 lbs., \$5.00.

SULPHATE OF AMMONIA. Contains approximately 25% of ammonia and comes in fine crystals which are very nice to apply broadcast.
1 lb., 15c; 2 lbs., 25c; 10 lbs., 85c; 25 lbs., \$1.50; 50 lbs., \$2.75; 100 lbs., \$5.00.

MURIATE OF POTASH. Apply 100 to 150 lbs. per acre, usually with other fertilizers. This must be used with great care as it is very powerful.
1 lb. 15c; 2 lbs., 25c; 10 lbs., \$1.00; 25 lbs., \$2.00; 50 lbs., \$3.00; 100 lbs., \$5.00.

ACID PHOSPHATE 16%. Apply from 200 to 400 lbs. per acre. Analysis: Available phosph. acid 16%; insoluble, 1%.
5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.50; per bag of 125 lbs., \$2.75.

MOSS, PEAT AND POTTING SOIL.

Moss, Green Sheet. For hanging basket, etc. Per bale, 50c; large bundle (5 bales), \$2.00.

Moss, Sphagnum. For packing plants and growing orchids, etc. 1 lb., 15c; per bale, \$2.50.

Potting Soil. Peck, 35c; per bushel, \$1.25.

IMPORTED GRANULATED PEAT MOSS

G. P. M. BRAND

This Granulated Peat Moss or Mull is especially selected for horticultural purposes. It is finely granulated, of little weight, and is entirely free from foreign matter. It is packed in compressed bales, burlaped on all sides, sticked and wire strapped. When loosened the contents will cover 240 sq. ft. 1 inch deep. It is not sold by weight, because the weight of the bale is dependent on its moisture content, which varies according to atmospheric conditions.

A few of the many purposes for which it is used: Fertilizer Carrier, Mulching, Cold Frames, Lawns, Improving Soils, Propagating, Cuttings, Landscape Work, Benches (Greenhouse), Golf Courses, Packing, Storing Bulbs, Potting, Layering, Seed Beds, etc. Send for booklet giving detailed information.

Prices: 60c per half-bushel; \$1.00 per bushel; large bale (13 cu. ft. and covers 240 sq. ft. one inch deep), \$4.50; 5 bales, \$4.25 per bale; 10 bales, \$4.00 per bale.

NOTE:—If planters will use our Prepared Humus in planting Shrubs, Trees, Roses, Evergreens and Hardy Perennial Plants, and much them with Granulated Peat Moss, much of the loss due to imperfect planting will be eliminated.

Insecticides and Fungicides

★**SCALECIDE**. Mixes instantly with Water and Stays Mixed. Add one gallon of "Scalecide" to 15 gallons of water. 1 qt., 75c; 1 gallon, \$1.75; 5 gallons, \$6.25; two 5 gallon cans, (10 gal.), \$10.60; 15 gallon drum, \$14.00.

DRY LIME-SULPHUR. From 10 to 12 pounds of S. W. Dry Powdered Lime-Sulphur should be used with 50 gallons of water.
1 lb. can, 35c; 5 lb. can, \$1.50; 10 lb. can, \$2.75; 25 lb. can, \$5.00.

SUNOCO SPRAY OIL. Self Emulsifying. Dormant Spray for fruit and shade trees and shrubs.
1 gal., \$1.25; 15 gal. drum, \$10.50.

★**LIME-SULPHUR SOLUTION**. 1 gallon will make 8 gallons spraying liquid.
1 qt., 50c; ½ gal., 75c; 1 gal., \$1.00; 5 gal., \$4.00; ½ bbl. (30 gals.), \$10.00; 1 bbl. (50 gals.), \$15.00.

★**NICO-FUME LIQUID**. For destroying Aphids, Thrip and Red Spider. Contains 40 per cent nicotine.
Use one to two teaspoonsful of Liquid to each gallon of water. This is a contact remedy. ¼ lb., 75c; 1 lb., \$2.00; 4 lbs., \$6.25; 8 lbs., \$11.50.

★**CYANOGENAS (Calcium Cyanide)**. Fumigating Greenhouses with Calcium Cyanide, will effect a saving to most growers of more than 75 per cent over the cost of present methods of fumigation.
Per lb., 75c; 5 lbs., \$3.00; 25 lbs., \$10.00.

VOLCK. Red Spiders, mites, aphids (green fly), thrips, mealy bugs, scales, white flies, caterpillars, leaf rollers and Rose mildew can be prevented and stopped by Volck.
½ pt. can, 50c; 1 pt. can, 75c; 1 qt., \$1.00; 1 gal., \$3.00; 5 gallons, \$12.00.
Full directions on each can.

PARADOW (Para-Dichlor-Benzene). Kills the Peach Tree Borer. Full directions on each package. Must not be used on young trees. Ask for descriptive circular.
Prices: 1 lb., 60c; 5 lbs., \$2.50; 10 lbs., \$4.25.

NOTICE—Insecticides prefixed by star (★) cannot be mailed.

SPRAY PUMPS, ATOMIZERS, BELLOWS, ETC.

PARAGON SPRAYERS

These Sprayers are strongly constructed and can be easily operated by one man.

Suitable for spraying Insecticides and Fungicides on trees, shrubs and vines, as well as the application of Whitewash and Cold Water Paints. **Paragon Sprayers Do Not Clog.**

No. 0. Capacity, 3½ gallons. Equipment, 4 feet spray hose, 3 feet spray pipe, 1 mist spray nozzle, 1 steel cap for mist nozzle, 1 straight spray. Price.....\$12.50

No. 1. Capacity, 6 gallons. Equipment, 5 feet 6-ply hose, 5 feet spray pipe, two spray nozzles. Price.....\$17.50

No. 2. Same capacity and equipment as No. 1, but mounted on strong steel truck which can easily be wheeled to any desired place. Truck is easily detached when desired. Price.....\$22.50

No. 3. Capacity, 12 gallons. Equipment, 10 feet 6-ply hose, 7½ feet spray pipe, two spray nozzles. Mounted on strong steel truck and can easily be wheeled to any desired place. Truck is easily detached when desired. Price.....\$25.00

No. 3. Machine without truck. Price.....\$21.50

No. 4. Capacity, 28 gallons. Equipment, 20 feet 6-ply hose, 10 feet spray pipe, two spray nozzles. Mounted on two strong 30-inch wheels. Price.....\$39.50

No. 4. Machine without wheels. Price.....\$29.50

No. 5. Capacity, 50 gallons. Equipment, 25 feet 6-ply hose, 10 feet spray pipe, one 3-way spray nozzle, one single spray nozzle. This sprayer has solid cast brass pump and large air chamber. It is positively the very best hand power sprayer made for tree spraying. Price.....\$45.00

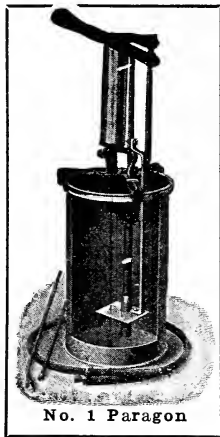
Nos. 1 and 3 Sprayers can be furnished with solid all cast brass pumps for—additional.....\$5.00

No. 4 Sprayer can be furnished with solid all cast brass pump for—additional.....\$6.00

Send for descriptive circular giving detailed information.

Bamboo Brass Lined Spray Poles

12-foot lengths. Net Price...\$5.00
10-foot lengths. Net Price...\$4.50



Hudson Perfection Compressed Air Sprayer

Used for potato spraying, white-washing, spraying disinfectants, cold water paints, etc.

Tank. 7½ inches diameter, 20 inches long, capacity, 4 gallons.

Made of first quality galvanized sheets or all brass as ordered.

No. 110G. Galvanized Steel Tank, Capacity, 4 gal...\$6.50

No. 110B. Brass Tank. Capacity, 4 gallons.....\$9.50

Hudson Perfection Junior Compressed Air Sprayer

Tank, 6½ inches diameter, 17 inches long, capacity about 2½ gallons. Made of first quality galvanized sheets. Tested under actual working conditions at factory.

No. 140—G. Galvanized Tank. Price, each.....\$5.00

No. 140—B. Brass Tank. Price, each.....\$7.00

Auto Compressed Air Sprayer

A practical machine for potatoes, tobacco, small fruits, vineyards, poultry houses, greenhouses, etc. Extension pipes for spraying trees.

Auto Spray. No. 9-B. Brass tank, capacity, 3½ gallons, with Auto-Pop Nozzle.....\$9.50

Auto Spray. No. 9-D. Galvanized tank, capacity, 3½ gallons, with Auto-Pop Nozzle.....\$6.50

Brass Extension. Two foot lengths—60c; Elbow.....40c

JIM DANDY SPRAYER

Adapted for spraying Garden and Farm Vegetables of every description; Shrubby, Grape Vines, Currant Bushes, Fruit Trees, etc. Will spray rapidly, Disinfectants in Schools, Public Buildings, Poultry Houses and Stables; Fly Spray on cattle; Whitewash, Carbola, etc.

Capacity two quarts; Galvanized tank.....\$3.50

AUTO-SPRAY No. 26. For spraying garden crops, for use in greenhouses, for handling disinfectants, and fly oils. It can be used with all spraying solutions.

Auto Spray No. 26B, 1 quart tin pump, brass tank...\$1.25

MYER'S LEVER BUCKET BRASS SPRAY PUMP. Complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle.....\$6.00

MYER'S DEFIANCE BRASS SPRAY PUMP. Complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle.....\$5.00

MYER'S LITTLE GIANT BRASS SPRAY PUMP. Complete with hose and imperial combination, fine, coarse spray and solid stream nozzle.....\$4.00

Four-foot Pipe Extension.....50c

Bordeaux Nozzle.....\$1.00

Graduating Vermorel Nozzle.....90c

THE ROBERTSON COMPRESSED AIR SPRAYER. Tin Pump with Tin Reservoir, each 90c; Tin Pump with Galvanized Reservoir, each, \$1.15; Brass Pump with Brass Reservoir, each, \$1.65.

ACME CYCLONE ATOMIZER. Capacity, 5 pints...50c

ACME GLASS TANK ATOMIZER. For Mason Jar...75c

ACME POWDER BELLOWS. Applies any powdered poison on any plant in any desired quantity.....\$1.75

WOODASON'S POWDER BELLOWS. Single cone; small...\$2.50; single cone, large.....\$3.75

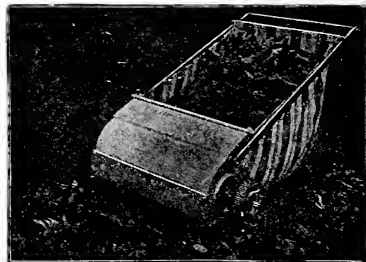
ACME FOG ATOMIZER. Strong, durable and satisfactory. Price, each.....50c

MIDGET ATOMIZER. A small, compact, substantial and very efficient Tin Sprayer. Price, each.....35c

CADET POWDER GUN. A small and effective Powder Gun. Price, each.....50c

Pennsylvania Lawn Cleaner

This machine will clean your lawn more thoroughly and quicker than three or four men can do it with hand rakes, and greatly benefit the turf—it leaves the grass standing up straight and



crab grass and other running weeds so they will be cut close by the lawn mower and sooner destroyed. In the autumn it takes up the heaviest fall of leaves. It is made of metal, wood and canvas, and is put together in the most durable and thorough manner. It combines strength and durability with light construction. Price.....\$35.00

We can now supply a brush attachment for the purpose of sweeping worm casts on Putting Greens. This attachment can be readily attached to the cleaner, in place of the rakes now supplied, at an additional cost of \$8.00.

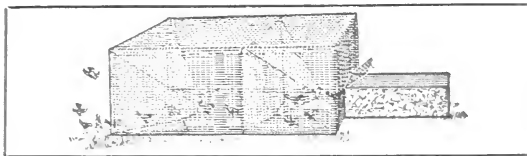
Mitchell All-Wood Lawn Rake

Substantially built of Hardwood but light in weight. Special shaped teeth make it easy to use, getting the loose grass without digging out the grass roots. For raking leaves it is the finest thing on the market. It will not spear the leaves, so it does away with cleaning off the teeth with the hands. The head will not split. The round Hickory brace keeps the head solid on the handle. With twenty Hickory teeth set in a head 22 inches wide and a 6-foot handle, this rake is the ideal size for general use.....\$1.00

Japanese Broom Rake

An ingenious device for cleaning the debris out of a lawn or grass plot, leaving it as free from refuse as though swept with a broom. In fact, to get the best results it should be used with the motion of a broom. Made of split bamboo, rigidly secured, with a suitable length wood handle. Just the thing for cleaning grass clippings from walks, flower beds, borders and from the lawn. Light, durable—efficient—weighs but 12 ounces—yet tough and strong. Contains 44 teeth. Spreads 18 inches. Price.....\$1.00

The Dodson Improved Sparrow Trap



The Dodson Sparrow Trap is made of tinned wire, electrically welded, strong and durable—will last for years. It has sharp, adjustable needle points projecting from the mouth of each of the two funnels, which effectively prevent any sparrows from getting out of either the front or second enclosure. Size 36 x 18 x 12 inches.

Price, complete with receiving box..... \$9.00

STUCCO BIRD HOUSES

The birds which nest and harbor in cavities and hollows are in most instances the most valuable of our native birds, which love the vicinity of man, seemingly not only to delight him with chirp and song, but are the most diligent to keep plant life free from parasites and devouring insects.

Our model hutlets and cabins which we provide for these charming entertainers are appreciated by all bird lovers.

PRICE LIST OF HUTS AND CABINS

Wren Hutlet, each.....	\$2.75	Bluebird Hut, each.....	\$3.00
Titmouse, each.....	2.75	Chickadee Hutlet, ea.....	2.75
Woodpecker and Flicker Hut, each.....	3.00		
Martin Houses.....	\$8.00 to \$50.00		
Feederies, Small.....	\$2.75 to 5.00		
Squirrel Cabins, each.....	8.00		
Wren Hutlet, Plain, Small, each.....	.50		

Hardy Biennial and Perennial Flower Seeds

AQUILEGIA OR COLUMBINE. Hardy Biennial.

- 90—Coerulea Hybrids, "Rose Queen." Large, long-spurred flowers, shading from light pink to dark rose with white center and yellow anthers..... 10c pkt.
- 91—McCullough's Long-Spurred Hybrids. Blue, white, yellow, orange, scarlet and bright rose-pink in large flowers with long spurs..... 3 pkts., 25c; 10c pkt.
- 92—Double. All colors, mixed..... 1/4 oz., 25c; 10c pkt.
- 93—Single. All colors, mixed..... 1/4 oz., 25c; 10c pkt.

CAMPANULA. Canterbury Bells. Hardy biennial.

- Calycanthem. Cup and Saucer Canterbury Bells.
- 118—Pink. Delicate rosy-pink..... 10c pkt.
- 119—Blue. A fine clear shade..... 10c pkt.
- 120—White. Pure white..... 10c pkt.
- 121—Finest Mixed. All colors of the Cup and Saucer type..... 1/4 oz., 50c; 10c pkt.

Medium. Single Canterbury Bells.

- 122—Single Mixed. All colors..... 1/4 oz., 25c; 10c pkt.
- 123—Double Mixed. All the double-flowering medium varieties..... 1/4 oz., 40c; 10c pkt.

DELPHINIUM. Hardy Perennial Larkspur.

- 180—Giant-Flowering Hybrids. These magnificent Hybrids, produce beautiful spikes of immense flowers, single, semi-double and double. Flower spikes are from 2 to 3 feet in length. Colors are beautiful, ranging from pure white through all shades of lavender and blue..... 10c pkt.
- 181—Belladonna. Everblooming Hardy Larkspur. The clear turquoise-blue of its flowers is not equaled for delicacy and beauty by any other flower..... 10c pkt.
- 182—Bellamosum. Beautiful spikes of dark blue flowers..... 10c pkt.
- 183—Chinese Varieties, Mixed. Contain a great variety of shades, from pure white to gentian-blue..... 10c pkt.
- 186—DIANTHUS. Plumarius Semperflorens. Everblooming Hardy Garden Pink. Very beautiful, sweet-scented, double, semi-double and single flowers in great diversity of colors..... 10c pkt.
- 191—DIGITALIS. Foxglove. Hardy biennial. A splendid strain; 3 to 5 feet. Finest Mixed..... 10c pkt.

- 210—GAILLARDIA. Grandiflora. Blanket Flower. The flowers are of enormous size and the colors the most varied; in flower for about three months. Hardy perennial. 2 feet..... 10c pkt.

- 226—HIBISCUS. "Marshmallow." Mallow Marvels. Immense flowers from 8 to 10 inches in diameter, in the following colors: fiery-crimson, blood-red, shell-pink and white. Hardy perennial..... 10c pkt.

HOLLYHOCK. For planting among shrubbery or forming a background for other flowers, it is without an equal. Hardy perennial.

- 227—Chater's Double Pink..... 10c pkt.
- 228—Chater's Double Rose..... 10c pkt.
- 229—Chater's Double Scarlet..... 10c pkt.
- 230—Chater's Double White..... 10c pkt.
- 231—Chater's Double Yellow..... 10c pkt.
- 232—Chater's Prize, Double Mixed. Unrivalled in richness and delicacy of coloring... 3 pkts., 25c; 10c pkt.
- 233—Mammoth Fringed Allegheny. Mammoth flowers; the colors range from the palest shrimp-pink to deep red. 6 to 7 feet. 3 pkts., 25c; 10c pkt.
- 234—Single. Finest Mixed; all colors..... 10c pkt.

IBERIS. Hardy Candytuft.

- 239—Sempervirens. A white-blooming plant, coming in flower early in the spring; used for cemeteries, rockeries, etc.; 1 foot. Hardy perennial..... 10c pkt.

LATHYRUS. Everlasting, or Hardy Pea. Free-flowering climbers; continually in bloom; fine for cutting. Hardy perennial.

- 253—Latifolius "White Pearl." The finest white..... 10c pkt.

- 254—Pink Beauty. Rosy pink..... 10c pkt.

- 255—Mixed. All colors. 1/4 oz., 25c; 1/2 oz., 60c; 10c pkt.

PHLOX DECUSSATA. Hardy perennial.

- 358—Mixed. Great variety of colors. 3 feet..... 10c pkt.

- 367—PYRETHRUM. Single Hybrids. Large flowers and choicest colors; saved from named varieties. Hardy perennial. Finest mixed..... 10c pkt.

- 396—SCABIOSA. Caucasica. Blue Bonnet. Especially valuable for cutting, the blooms lasting a long time in water; lilac-blue; 3 feet. Hardy perennial..... 10c pkt.

- 155—SHASTA DAISY. A grand, large-flowering Daisy of hardy, robust growth; white flowers. 3 pkts., 25c; 10c pkt.

- 406—STOKESIA. Cornflower or Stokes' Aster Cyanea. A hardy perennial, producing handsome lavender-blue, cornflower-like blossoms; in full bloom from July till frost; one of the best hardy border plants..... 10c pkt.

SWEET WILLIAM. Dianthus Barbatus. Hardy perennial.

- 413—Holborn Glory. The flowers are of extraordinary size and color, all showing a clear, white eye..... 10c pkt.

- 415—McCullough's Selected Single Mixed. A very choice assortment of all the best single-flowering varieties..... 10c pkt.

- 416—Double Mixed. This mixture you will find of very superior quality, containing all colors and shades. 10c pkt.

POPPY. Hardy Perennials. Iceland. Papaver Nudicaule. Of neat habit, with bright green, fern-like foliage, formed in tufts, bearing brilliant flowers in endless profusion on slender stalks about 12 inches high.

- 364—Finest Mixed. All colors..... 1/4 oz., 30c; 10c pkt.

- 362—ORIENTALE. The large Oriental Poppy. Large deep crimson flowers, having a conspicuous black blotch on each petal; exceedingly showy. 1/4 oz., 35c; 10c pkt.

- 363—Orientale Hybrids. Produce flowers of immense size and of many novel colors, such as salmon, pink, cherry, etc..... 1/4 oz., 50c; 10c pkt.

Giant Flowered Pansies Half-hardy Perennial.

- 327—McCullough's "Premier" Pansies. The cream of American and European Specialists. In this magnificent mixture of mammoth-flowering Pansies the blossoms are borne on long stems well above the foliage and are distinguished for their gorgeous and varied colorings and beautiful markings; of fine substance, velvety texture, perfect form, and giant size, frequently measuring 3 inches in diameter. The colorings are wonderfully rich and varied; every shade and tint of rose, sky-blue and orange are produced in endless variation. 1/4 oz., \$1.00; 1/2 oz., \$1.75; 25c pkt. See Our Spring Catalog for named varieties and other mixtures of Pansies.

See Our Spring Catalog for Half-Hardy and Tender Biennial and Perennial Flower Seeds.

All 10c Packets of Flower Seeds are 3 Packets for 25c. 13 Packets for \$1.00.

LIBERTY IRIS *Iris Germanica* (Flag Iris) The "Fleur-de-Lis" of France

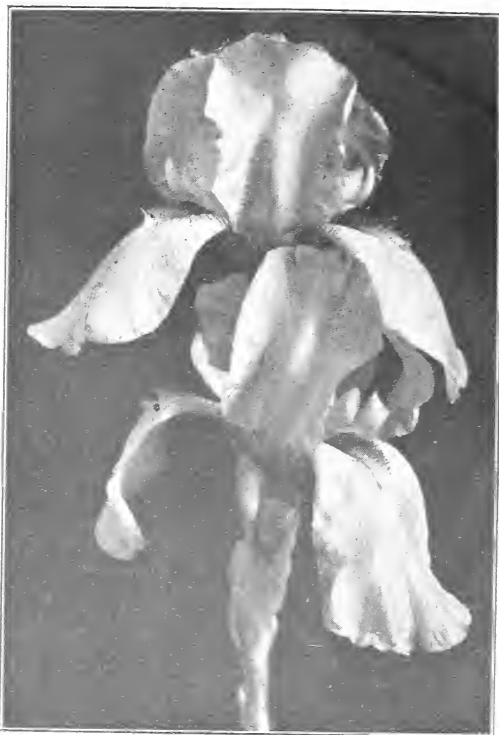
The Liberty Iris is one of the most desirable May flowering plants. The flowers are of large size and exquisite colors. For the best results plant in a well-drained sunny position, barely covering the roots. Avoid fresh manure in preparing your border.

- Alcazar.** Standards light bluish violet. Falls deep purple, with bronze-veined throat. 35c each; \$3.50 per dozen.
- Ambassadeur.** Standards, a fascinating smoky velvety purple color; Falls, velvety purple-maroon. \$1.00 each.
- Caprice.** Standards rosy red; Falls deep rosy red. Large and handsome. 24 inches. 25c each; \$2.50 per dozen.
- Cecil Minturn.** Soft Cattleya rose. A beautiful flower with broad petals, gracefully waved and crinkled; one of the finest Irises for size and extreme beauty. 40c each; \$4.00 per dozen.
- Fairy.** White, delicately bordered with pale blue. Tallest white variety. 25c each; \$2.50 per dozen.
- Jeanne D' Arc.** Standards white, with a border pencilled bright lilac; Falls white, bordered lilac. 35c each; \$3.50 per dozen.
- King of Iris.** Standards clear lemon-yellow; Falls rich maroon, bordered yellow. 30c each; \$3.00 per dozen.
- Lent. A. Williamson.** Standards Campanula-blue violet; Falls rich, royal purple with yellow beard. Very tall and distinct. 70c each; \$7.00 per dozen.
- Lord of June.** A magnificent variety of gigantic size. Standards lavender blue; Falls rich, violet purple. 80c each; \$8.00 per dozen.
- Madame Chereau.** White, elegantly frilled with a wide border of clear blue. 20c each; \$2.00 per dozen.
- Midnight.** A rich, deep purple, the finest in this color; a fine cut flower. 25c each; \$2.50 per dozen.
- Monsignor.** Standards violet; Falls heavily veined purple, leaving a border of the violet. 20c each; \$2.00 per dozen.
- Mother of Pearl.** Standards and Falls pale bluish lavender, with a faint creamy undertone. Large flowers of exceptional substance and perfect form on well branched stems. 50c each; \$5.00 per dozen.
- Mrs. Alan Gray.** A delicate lavender-pink that appears pinker in the shadow, a variety of rather early bloom. 20c each; \$2.00 per dozen.
- Nibelungen.** Standards, fawn and yellow; Falls, violet, purple on bronze. 25c each; \$2.50 per dozen.
- Orifame.** Standards, light blue; Falls, rich violet-purple. 40c each; \$4.00 per dozen.
- Pallida Dalmatica.** This is one of the finest Irises grown, having enormous sweet-scented flowers. Standards lavender; Falls lavender, shaded blue. Unequaled for massing and fine for cutting. Height, 40 to 48 inches. 30c each; \$3.00 per dozen.
- Prosper Laugier.** Standards light bronze-red; Falls velvety ruby-purple. 20c each; \$2.00 per dozen.
- Princess Victoria Louisa.** Standards, sulphur-yellow; Falls, rich plum bordered cream. 25c each; \$2.50 per dozen.
- Queen Caterina.** A mid-season variety of a beautiful clear orchid purple veined with brilliant gold; the whole being further enhanced with a bright orange beard. 50c each.
- Shekinah.** A delightful shade of pale yellow shading to amber in the throat, with a lemon colored beard. This is a true yellow Pallida and the first of the type. 80c each; \$8.00 per dozen.
- Sherwin-Wright.** This variety has splendid golden-yellow flowers without shading or markings. Strong, vigorous plants about two feet high. Flowers of good texture and lavishly produced. 40c each; \$4.00 per dozen.

MCCULLOUGH'S PLANT TUBS

An excellent tub, neat and durable. Made from 3/4-inch Cypress, with iron handles and feet. 3 steel hoops and 2 coats of green paint.

No.	7-12 inches diameter, 11 inches high	Each
No. 8-13	" 12 " " "	\$2.50
No. 9-14	" 13 " " "	2.75
No. 10-15	" 14 " " "	3.00
No. 11-16	" 15 " " "	3.25
No. 12-17	" 16 " " "	3.50
No. 13-18	" 17 " " "	3.75
No. 14-19	" 18 " " "	4.25



Liberty Iris

JAPANESE IRIS *Iris Kaempferi*

They are most effective when planted in groups and thrive best in a moist soil. The flowers are of immense size, from six to eight inches in diameter, and of the most beautiful and delicate shades. They are perfectly hardy, flowering in great profusion during June and July.

Plant in rich soil early as possible in the fall, firm the ground well and cover lightly with straw or other litter.

We offer the following varieties:
50c each; \$5.00 per dozen.

- Azure.** Double, mauve-blue with darker halo.
- Dominator.** Single. Rich indigo-blue.
- Gold Bound.** Double. Pure white, creamy glow.
- Indo.** Single. Rich dark blue, yellow center.
- La Favorite.** Large, white veined blue, purple center.
- Minerva.** Single. Pink tinted rose.
- Mount Hood.** Double. Light blue shaded dark blue.
- Patrocle.** Single. Superb dark reddish violet.
- Purple and Gold.** Double. Violet-blue, golden throat.
- Pyramid.** Double. Violet-purple veined white.
- Reine Des Bulgares.** Deep blue, white veins.
- Shadow.** Single. Reddish mahogany.
- Finest Mixed (Our Selection).** Our mixed varieties embrace a wide range of colors and markings. 35c each; \$3.50 per dozen.

If wanted by mail, add 5c each; 30c per dozen for postage.

CYPRESS PLANT TUBS

Made of seasoned selected Cypress, bound with steel hoops. Painted green, inside and out, and top edge finished with round bevel.

No feet, but furnished with iron handles.

No.	7-12 inches diameter, 11 inches high	Each
No. 8-13	" 12 " " "	\$2.00
No. 9-14	" 13 " " "	2.25
No. 10-15	" 14 " " "	2.50
No. 11-16	" 15 " " "	2.75
No. 12-17	" 16 " " "	3.00
No. 13-18	" 17 " " "	3.25
No. 14-19	" 18 " " "	3.75

The J. M. McCULLOUGH'S SONS CO., Seedsmen

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Opposite Walnut Street Entrance Dixie Terminal Building